LPW ARCHITECTURE

IN ASSOCIATION WITH

The Clark Enersen Partners SCIENCE

QUALIFICATIONS TO PROVIDE PROFESSIONAL

RESEARCH, ANALYSIS, AND CONCEPTUAL INFORMATION FOR THE STATE OF MONTANA

Combined State Labs Study, A/E #2018-50-01 | February 13, 2018

STATE OF MONTANA

DEPARTMENT OF ADMINISTRATION
ARCHITECTURE AND ENGINEERING DIVISION
1520 East Sixth Avenue • P.O. Box 200103 • Helena MT 59620-0103
Phone: 406 444-3104 • Fax: 406 444-3399

STATEMENT OF QUALIFICATIONS for Specific Projects (Form 115)

PROJECT FOR WHICH THE FIRM IS SUBMITTING

A/E Project Name & Location (list only one project; provide separate Form 115 for each project):	A/E Project #:
Combined State Labs Study	#2018-50-01

PRIME FIRM INFORMATION

Firm Name:	LPW Architecture	Contact(s)	Name	Email Address
		Principal:	Stephen M. L'Heureux, AIA	stephenl@lpwarchitecture.com
Address: (provide mailing address also, if different)	15 Fifth Street South Great Falls, Montana 59401	Project Mgr:	Stephen M. L'Heureux, AIA	stephenl@lpwarchitecture.com
Phone #:	(406) 771-0770 Ext. 313	Project A/E:	Stephen M. L'Heureux, AIA	stephenl@lpwarchitecture.com
Fax #:	N/A			

CATEGORIES OF WORK FOR CONSIDERATION BY *PRIME* FIRM

ARCHITECTURAL:		ENGINEERING:	
General Practice	x	Mechanical	
Historic Restoration	x	Electrical	
Exterior Envelope	x	Structural	
Master Planning/Programming	x	Civil	
Interior Design	x	Environmental	
		AV/Comm/Data/IT	

SPECIALTY/OTHER:		LANDSCAPE ARCH:	
Acoustics		General Practice	
Commissioning		Master Planning	
Construction Management		Environmental	
Geotechnical/Materials Testing			
Haz Materials Testing/Mitigation			

***PRIME* FIRM PROFILE**

Year Firm was established:	**1953**
# of Offices in Montana (provide address & contact list if more than one):	**1**

TOTAL PROFESSIONALS/PERSONNEL (provide total & location-specific list):

Architects	**6**	Mechanical	
A.I.T.	**3**	Electrical	
Interior Designer	**1**	Structural	
Landscape Architect		Civil	
Specification Writer		E.I.T.	
Cost Estimator		Environmental	
Construction Administrator	**1**	Energy Analysis	
Production Staff	**1**	Commissioning	
Accounting	**1**	Other (provide list)	
Administrative Support	**1**		

LIST THE FIRM NAME AND ADDRESS FOR EACH OF THE CONSULTANTS ON THIS PROJECT (if different from PRIME above).

ARCHITECT FIRM INFORMATION

Firm Name:	LPW ARCHITECTURE	Contact(s)	Name	Email Address
		Principal:	Stephen M. L'Heureux, AIA	stephenl@lpwarchitecture.com
		Project Mgr:	Stephen M. L'Heureux, AIA	stephenl@lpwarchitecture.com
Address: (provide mailing address also, if different)	15 Fifth Street South Great Falls, Montana 59401	Project A/E:	Stephen M. L'Heureux, AIA	stephenl@lpwarchitecture.com
Phone #: Fax #:	(406) 771-0770 Ext. 313 N/A			

MECHANICAL ENGINEER FIRM INFORMATION

Firm Name:	The Clark Enersen Partners SCIENCE	Contact(s)	Name	Email Address
		Principal:	Greg Lattig, AIA	greg.lattig@clarkenersen.com
		Project Mgr:	Andy Stepp, AIA, NCARB	andy.stepp@clarkenersen.com
Address: (provide mailing address also, if different)	1251 NW Briarcliff Parkway, Suite 400 Kansas City, MO 64116	Project A/E:	Shawn Diederich, P.E., LEED AP	shawn.diederich@clarkenersen.com
Phone #: Fax #:	816.474.8237 816.474.8233			

ELECTRICAL ENGINEER FIRM INFORMATION

Firm Name:	The Clark Enersen Partners SCIENCE	Contact(s)	Name	Email Address
		Principal:	Greg Lattig, AIA	greg.lattig@clarkenersen.com
		Project Mgr:	Andy Stepp, AIA, NCARB	andy.stepp@clarkenersen.com
Address: (provide mailing address also, if different)	1251 NW Briarcliff Parkway, Suite 400 Kansas City, MO 64116	Project A/E:	Phil Walter, P.E., LEED AP	philip.walter@clarkenersen.com
Phone #: Fax #:	816.474.8237 816.474.8233			

STRUCTURAL ENGINEER FIRM INFORMATION

Firm Name:	We do not anticipate structural engineering for the study phase.	Contact(s)	Name	Email Address
Address: (provide mailing address also, if different)		Principal: Project Mgr: Project A/E:		
Phone #: Fax #:				

CIVIL ENGINEER FIRM INFORMATION

Firm Name:	We do not anticipate civil engineering for the study phase.	Contact(s)	Name	Email Address
Address: (provide mailing address also, if different)		Principal: Project Mgr: Project A/E:		
Phone #: Fax #:				

SPECIALTY CONSULTING FIRM INFORMATION (LABORATORY PLANNING AND DESIGN)

Firm Name:	The Clark Enersen Partners SCIENCE	Contact(s)	Name	Email Address
Address: (provide mailing address also, if different)	1251 NW Briarcliff Parkway, Suite 400 Kansas City, MO 64116	Principal: Project Mgr: Project A/E:	Greg Lattig, AIA Andy Stepp, AIA, NCARB Andy Stepp, AIA, NCARB	greg.lattig@clarkenersen.com andy.stepp@clarkenersen.com andy.stepp@clarkenersen.com
Phone #: Fax #:	816.474.8237 816.474.8233			

PROVIDE BRIEF RESUMÉ OF KEY PERSONS OF PRIME FIRM ASSIGNED TO THIS PROJECT (add tables as required)

Name: Title: Firm Name: Role on This Project: Years w/ This Firm: Education (degree/year): Active Registrations:	Stephen M. L'Heureux, AIA President | Principal L'Heureux Page Werner, PC Principal-in-Charge |Planner | Designer 39 Bachelor of Architecture (1978), University of Notre Dame Architecture: • Montana #1124 (1982) • Idaho #AR-2143 (1995) • Washington #10213 (2011) • NCARB #56457	Experience & Qualifications Relevant to This Project:	• Montana State University, Chemistry Research Building - Bozeman • McLaughlin Research Institute - Great Falls • Central Montana Medical Center, ER & Lab Addition - Lewistown • Benefis Health System, Surgery Addition and Remodel - Great Falls • Benefis Health System, Patient Tower - Great Falls • Great Falls Clinic, Specialty Center - Great Falls • Great Falls Clinic, Hospital - Great Falls • Montana Tech of the UM, Renovate Health Sciences - Butte • Montana State University, Montana Hall Comprehensive Study, Building Development Options - Bozeman • U of M, Gallagher School of Business - Missoula • U of M, Gilkey Center for Executive Education - Missoula • Russell Elementary School - Missoula • Lowell Elementary School - Missoula • Flathead High School, Addition - Kalispell • Lame Deer Elementary School - Lame Deer • A.W.A.R.E. Center for Excellence, School Building - Anaconda • Pacific Steel & Recycling, Corporate Headquarters - Great Falls • Great Falls Rescue Mission, Cameron Family Center - Great Falls • Margaret J. Maclean Animal Shelter - Great Falls • First Avenue Estates - Great Falls • Great Falls International Airport Authority, Terminal Expansion - Great Falls • University of Providence, Wrestling Building - Great Falls

LPW ARCHITECTURE

PROVIDE BRIEF RESUMÉ OF KEY PERSONS OF CONSULTING FIRMS ASSIGNED TO THIS PROJECT (add tables as required)

Name: Title: Firm Name: Role on This Project: Years w/ This Firm: Education (degree/year): Active Registrations:	Greg Lattig, AIA Senior Principal | Architect The Clark Enersen Partners Principal – Lab Planner – Architect 26 B.S. in Architectural Studies University of Nebraska-Lincoln, 1977 AIA	Experience & Qualifications Relevant to This Project:	Greg will lead the programming and lab design team and have ultimate responsibility for meeting the State of Montana's Combined State Lab Study goals. With over 35 years of experience, Greg is considered to be one of the nation's foremost experts in regard to the programming and design of science and research facilities. He has extensive experience in developing studies and program statements for a wide variety of labs that include, but are not limited to: agriculture analytical, agricultural seed, crop diagnostic, agricultural animal science, veterinary diagnostics, and BSL-3 laboratories. Greg has presented at many national conferences regarding innovative design solutions on laboratory facilities. **SELECTED EXPERIENCE** • University of Missouri-Columbia, Research and Animal Diagnostic Laboratory (RADIL) - Columbia, Missouri • State of South Dakota, Animal Disease Research and Diagnostic Laboratory (ABSL-3) - Brookings, South Dakota • South Dakota State University, Seed Technology Laboratory (BSL-3) - Brookings, South Dakota • State of Missouri Health Laboratory (BSL-3) – Jefferson City, Missouri • General Services Administration, EPA Region 7 Science and Technology Center - Kansas City, Kansas • Colorado State University, Translational Medicine Institute - Fort Collins, Colorado • University of Nebraska-Lincoln, Life Sciences Annex Addition & Renovation - Lincoln, Nebraska • University of Missouri-Columbia, National Swine Research and Resource Center - Columbia, Missouri • University of Michigan, New College of Pharmacy Program Statement – Ann Arbor, Michigan • University of Nebraska Medical Center, Davis Global Center – Omaha, Nebraska • University of Missouri – Columbia, Regional Biocontainment Laboratory NIH Grant (BSL-3) – Columbia, Missouri • University of Missouri – Kansas City Center for Health Sciences Program Statement (BSL-3) – Kansas City, Missouri • University of Nebraska Medical Center Durham Science Center Lower Level Renovation (BSL-3) – Omaha, Nebraska • USDA Diagnostic Virology Laboratory (Design only, project was not constructed due to lack of funding) – Ames, Iowa
		The Clark Enersen Partners SCIENCE	

Name: Title: Firm Name: Role on This Project: Years w/ This Firm: Education (degree/year): Active Registrations:	Andy Stepp, AIA, NCARB Senior Principal | Architect The Clark Enersen Partners Project Manager – Lab Planner – Architect 24 Master of Architecture Texas A & M University, 1998 B.S. in Architectural Studies University of Nebraska-Lincoln, 1992 AIA, NCARB	Experience & Qualifications Relevant to This Project:	Andy Stepp is one of the most talented laboratory facility designers in the region. He believes that prior to designing or renovating any science facility, it is important to understand not only what takes place in the laboratory, but why. He is committed to learning about the teaching methodology and philosophy and incorporating this knowledge into the design. He has been involved in many of the firm's most complex science facilities over the past 20 years. Andy has specialized expertise in the programming, planning, and design of animal research laboratory facilities. **SELECTED EXPERIENCE** • State of South Dakota, Animal Disease Research and Diagnostic Laboratory (ABSL-3) - Brookings, South Dakota • University of Missouri-Columbia, Research Animal Diagnostic Laboratory – Columbia, Missouri • Colorado State University, Translational Medicine Institute - Fort Collins, Colorado • General Services Administration, EPA Region 7 Science and Technology Center - Kansas City, Kansas • University of Nebraska-Lincoln, Life Sciences Annex Addition & Renovation - Lincoln, Nebraska • University of Missouri-Columbia, National Swine Research and Resource Center - Columbia, Missouri • University of Missouri-Columbia, Animal Resource Center - Columbia, Missouri • Fort Dodge Animal Health Global Research and Development Center - Olathe, Kansas • State of Missouri Health Laboratory (BSL-3) – Jefferson City, Missouri • University of Nebraska Medical Center, Davis Global Center – Omaha, Nebraska • Iowa State University, New Veterinary Field Services Facility Program – Ames, Iowa • Kansas State University, Veterinary School, Trotter Hall Renovation – Manhattan, Kansas

The Clark Enersen Partners SCIENCE

Name: Title: Firm Name: Role on This Project: Years w/ This Firm: Education (degree/year): Active Registrations:	Shawn Diederich, P.E., LEED AP Senior Principal | Director of Engineering | Mechanical Engineer The Clark Enersen Partners Mechanical Engineer 17 B.S. in Mechanical Engineering University of Nebraska-Lincoln, 1997 P.E., LEED AP	Experience & Qualifications Relevant to This Project:	Shawn will be the lead Mechanical Engineer. With over 21 years of experience in the design of science and research facilities, Shawn has extensive experience with all types of complex projects, including agricultural, analytical, seed, and animal lab facilities, veterinary diagnostic labs, and BSL-3 laboratories. He was also a reviewing member of the 2016 National Institutes of Health (NIH) Design Requirements Manual update. He recognizes that, in order for a science building to work well, it is imperative to integrate MEP, building automation, and fire protection systems into the architectural framework of a building. **SELECTED EXPERIENCE** • South Dakota State University, Seed Technology Laboratory (BSL-3) - Brookings, South Dakota • General Services Administration, EPA Region 7 Science and Technology Center - Kansas City, Kansas • University of Missouri-Columbia, Animal Resource Center - Columbia, Missouri • University of Missouri-Columbia, National Swine Research and Resource Center - Columbia, Missouri • Colorado State University, Translational Medicine Institute - Fort Collins, Colorado • University of Nebraska-Lincoln, Life Sciences Annex Addition & Renovation - Lincoln, Nebraska • State of Missouri Health Laboratory (BSL-3) – Jefferson City, Missouri • University of Nebraska Medical Center, Davis Global Center – Omaha, Nebraska • Iowa State University, New Veterinary Field Services Facility Program – Ames, Iowa • Missouri State University, Darr Agricultural Center - Springfield, Missouri

Name: Title: Firm Name: Role on This Project: Years w/ This Firm: Education (degree/year): Active Registrations: 	Phil Walter, P.E. Principal | Electrical Engineer The Clark Enersen Partners Electrical Engineer 13 B.S. in Architectural Engineering Kansas State University, 2004 P.E.	Experience & Qualifications Relevant to This Project: The Clark Enersen Partners SCIENCE	Phil will be the lead Electrical Engineer. He understands the functional requirements of science facilities from not only a research perspective, but also as it relates to flexible power distribution, technology systems, and lighting. He was a subcommittee member for the 2016 National Institutes of Health (NIH) Design Requirements Manual update. He has participated in all facets of science facility projects including grant preparation, planning, programming, design, and documentation. **SELECTED EXPERIENCE** • Colorado State University, Translational Medicine Institute - Fort Collins, Colorado • University of Missouri-Columbia, Animal Resource Center - Columbia, Missouri • University of Nebraska-Lincoln, Animal Research Facility - Lincoln, Nebraska • Missouri State University, Temple Hall Vivarium Addition - Springfield, Missouri • University of Missouri-Columbia, Lab Animal Center - Columbia, Missouri • Missouri State University, Darr Agricultural Center - Springfield, Missouri • University of Arkansas for Medical Sciences, Molecular Pathology Laboratory – Little Rock, Arkansas • Kansas State University, Veterinary School, Trotter Hall Renovation – Manhattan, Kansas

PROJECTS BY PRIME FIRM THAT BEST ILLUSTRATE QUALIFICATIONS RELEVANT TO THIS PROJECT (limit of 5 projects)

Project Name & Location:	Brief Project Description:	GSF, Cost/SF, & Year Completed:	Owner Contact Info:
Montana State University: Chemistry Research Building Bozeman, Montana LPW ARCHITECTURE	An 89,613 SF Chemistry Research Building including Biochemistry, Inorganic and Organic Chemistry. This project demonstrates our ability to coordinate and execute several specialized disciplines. This facility provides state-of-the-art laboratory and chemistry research space for MSU. The building houses laboratories and offices for about twenty MSU researchers and one hundred eighty graduate assistants, research assistants and support staff. A stately four-story atrium and staircase is at the center of the building which also includes a lecture hall / think tank where scientists are able to interface with other specialists.	**Size (GSF):** 89,613 SQ FT **Cost/SF:** $200.86 Cost/ SQ FT **Year Completed:** 2009	Russ Katherman, Contract Officer State of Montana Department of Administration Architecture and Engineering Division 1520 East Sixth Avenue P.O. Box 200103 Helena, Montana 59620.0103 406.444.3332 rkatherman@mt.gov

McLaughlin Research Animal Resource Center Expansion and Remodel
Great Falls, Montana

LPW ARCHITECTURE

An addition for additional laboratories, staff research areas, and rodent care facility; inclusive of renovation of the current HVAC systems.

Size (GSF):
29,817 SQ FT

Cost/SF:
$146.56 Cost / SQ FT

Year Completed:
2010

Dr. George A. Carlson, PhD
Director & Professor
McLaughlin Research Institute
for Biomedical Sciences
1520 23rd Street South
Great Falls, Montana 59405
406.452.6208

Montana Tech of the University of Montana: Renovate Health Sciences Building
Butte, Montana

LPW ARCHITECTURE

The original Petroleum Building has been redesigned to house Montana Tech's nursing program. The renovated facility will have several sizes of standard classrooms, a new computer lab and administrative offices. There will be two state of the art nursing practice labs; students will be able to encounter real life nursing applications in a lab format before entering the workforce. One lab will have two stations for computer controlled simulation mannequins and the other lab will have a nursing station and four beds. The student outreach program will also be housed in the building. The 1950's building will get a new elevator and a new HVAC system.

Features: Classrooms, Laboratories Offices and Restrooms.

Size (GSF):
7,321 SQ FT (foot print)
three floors + attic
(mechanical room)

Cost/SF:
Not available

Year Completed:
2011

Dr. Douglas M. Abbott
Vice Chancellor for
Academic Affairs & Research
Montana Tech of the
University of Montana
Department of Administration
Main 204A
406.496.4127
dabbott@mtech.edu

Great Falls Clinic: Hospital
Great Falls, Montana

LPW Architects, in collaboration with GMC Architects, designed this new hospital facility to replace the Great Falls Clinic Medical Center's current facility, and to connect to the existing Great Falls Clinic Specialty Center. The Specialty Center was also designed by LPW, and with completion of this project, the majority of all inpatient and outpatient facilities will now be integrated on one campus.

The facility will feature 19 private patient recovery rooms, a modern operating suite, and a full emergency department. New radiology, lab, and pharmacy departments are also included, as are supporting spaces including but not limited to; administration, kitchen, dining, and central supply.

The project is currently under construction, and is being delivered through a design-build, fast-track delivery method. From pre-design through construction, a large nationwide team including multiple ownership interests, designers, developers, and contractors have collaborated closely to manage a fixed budget within an expedited construction schedule.

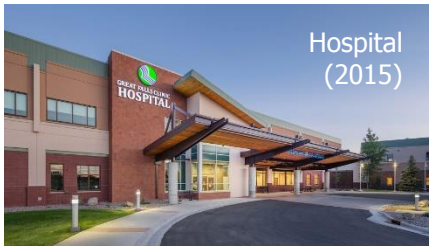
LPW completed the two-story, specialized ambulatory care center within a compressed schedule by a design-build fast track delivery method. It consists of oncology, radiology, orthopedics, cardiology, surgery, ophthalmology, and laboratory. This facility was completed in 2005. We were hired for the hospital project, which is adjacent to the Specialty Center.

Size (GSF):
60,000 SQ FT

Cost/SF:
$311.93 Cost / SQ FT

Year Completed:
2015

Vicki Newmiller RN, BSN, MHA
Chief Executive Officer
Great Falls Clinic Hospital
Great Falls Clinic Surgery Center
1400 29th Street South
Great Falls, Montana 59405
406.216.8030
Vicki.Newmiller@gfclinic.com



Central Montana Medical Center - ER and Lab Addition
Lewistown, Montana

LPW ARCHITECTURE

At 10,000 square feet, the facility will replace existing dated facilities at this Critical Access Hospital originally constructed in 1974. In doing so, the capacity of the existing ED will be expanded from two non-private treatment bays, to five private treatment bays, and two high acuity bays configurable for private or semi-private use as needed. Direct access to CT scan, absent previously, will be attained as will improved adjacencies to surgery and laboratory. The new ED will boast a fully-enclosed ambulance entry garage, secure holding facilities, and isolation as well as protective environment treatment rooms. Other amenities include the incorporation of a decontamination area, secure holding provisions, and improved patient flow from waiting, to triage, to treatment areas, as presented by patient acuity. The new clinical laboratory will more than double the size of the department, to remedy currently congested conditions. Modular furniture, complete accessible utility raceways, will accommodate all existing and planned equipment, and allow for reconfiguration over time as technology and equipment needs change.

Size (GSF):
10,000 SQ FT

Cost/SF:
$340.00 Cost / SQ FT

Year Completed:
2015

Mike Dowdy
Chief Executive Officer
Central Montana Medical Center
408 Wendell Avenue
Lewistown, Montana 59457
406.535.6200
mdowdy@cmmccares.com

PROJECTS BY PRIMARY CONSULTANT(S) THAT BEST ILLUSTRATE QUALIFICATIONS RELEVANT TO THIS PROJECT (limit of 3 projects/firm)

Project Name & Location:	Brief Project Description:	GSF, Cost/SF, & Year Completed:	Owner Contact Info:
State of South Dakota - Animal Disease Research and Diagnostic Laboratory Brookings, South Dakota The Clark Enersen Partners SCIENCE	In fall of 2015, The Clark Enersen Partners was selected to lead the programming, design, and documentation services to update the veterinary diagnostic laboratory serving the State of South Dakota. Known as the Animal Disease Research and Diagnostic Laboratory (ADRDL), it is located on the campus of South Dakota State University in Brookings and was last updated in 1993. The Clark Enersen Partners is the lead firm. The scope of the project is to expand and modernize the current Animal Disease and Research Diagnostic Laboratory (ADRDL) facility and associated research space, while providing added capability to deal with suspected BSL-3 agents. The project will involve an addition to the north that will house all new diagnostic laboratories and necropsy space while renovating the existing diagnostic facility to expand research functions associated with the institutional mission. The program and conceptual design study was completed in April of 2016 and legislative approval was granted in early 2017. The project has recently bid and will break ground in March of 2018. The current project budget is approximately $65 million.	**Size (GSF):** 147,000 square feet **Cost/SF:** $442.00 Cost/SF (Total: $65 million) **Year Completed:** Completion and Move-in for new Addition – August 2019 Completion and Move-in for Renovated Area – March 2020	**Contact:** Jane Christopher-Hennings, DVM, MS, Professor Head, Veterinary & Biomedical Sciences Department Director South Dakota State University Brookings, South Dakota 57007 605.688.5171 605.688.6003 (Fax)

University of Missouri-Columbia, Research Animal Diagnostic Laboratory
Columbia, Missouri

The Clark Enersen Partners SCIENCE

The Clark Enersen Partners was part of a design-build team to provide design services for the Research Animal Diagnostic Laboratory (RADIL) at the University of Missouri Discovery Ridge Research Park. The 64,000-square-foot, one-story structure accommodates the RADIL program, which was originally located at the Veterinary Medicine Building on the MU campus.

The Research Animal Diagnostic Laboratory (RADIL) is one of the two largest research animal diagnostic laboratories in the United States and the largest in an academic institution. RADIL provides state-of-the-art diagnostics for research animals, conducts research in laboratory animal infectious diseases, and trains laboratory animal veterinarians and research scientists.

Research interests of RADIL faculty focus on microbial pathogenesis, characterization of emerging pathogens, development of novel diagnostic techniques, and development of animal models for infectious diseases. RADIL's unique services (offered on a fee-basis) have provided a regular income, and offer many opportunities to spin-off and commercialize new technologies. Completed in August 2008, the facility contains a 13,000 GSF rodent barrier facility with an interstitial mechanical space, full cage washing/preparation suite and 12 separate animal holding rooms.

Size (GSF):
64,000 square feet

Cost/SF:
$242.00 Cost/SF
(Total: $15.5 million)

Year Completed:
2008

Contact:
Mr. Jude Wawrzyniak, AIA
Facilities Project Manager
Planning, Design and Construction
University of Missouri-Columbia
573.882.9340

South Dakota State University, Seed Technology Laboratory
Brookings, South Dakota

The Clark Enersen Partners SCIENCE

The Clark Enersen Partners was selected to design a new seed technology laboratory to enhance research in seed science, technology, and biotechnology plus supplement seed testing and analysis, and agricultural extension. Laboratory spaces included space for seed testing, extraction, and seed destruction. Seed testing spaces included wet chemistry laboratory space with additional bench space that can be assigned to individuals for various projects. The equipment and space assigned will vary with time, so large, highly equipped, generic laboratories were designed to provide necessary flexibility.

While most laboratories work within BSL-2 parameters, a BSL-3 laboratory and associated BSL-3P greenhouse space is provided for genetic and transgenic work with seeds and plants.

Greenhouse space was included as part of the facility in order to grow and test new seed products. The greenhouse space is fully compartmentalized for various projects to be conducted independently. The greenhouse space has full environmental controls to simulate environmental stress on plants. The greenhouse was designed and constructed to control the ingress of insects and rodents. Space associated with the greenhouse functions as a headhouse and is used for soil preparation, potting, and material storage.

Size (GSF):
28,500 square feet

Cost/SF:
$263.00 Cost/SF
(Total: $7.5 million)

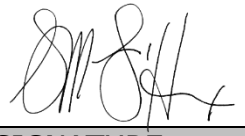
Year Completed:
2010

Contact:
Mr. Les Olive
Project Coordinator
South Dakota State University
Brookings, South Dakota
605.688.6251
605.691.3421 (cell)
leslie.olive@sdstate.edu

ADDITIONAL RELEVANT INFORMATION (additional attachments, firm information, photos, and/or personnel resumes are acceptable)

Please see appendix for additional relevant information.

SIGNATURE (signature should be that of the firm's principal/owner)

Stephen M. L'Heureux, AIA	
NAME	SIGNATURE
President | Principal	February 13, 2018
TITLE	DATE

The state of Montana makes reasonable accommodations for any known disability that may interfere with an applicant's ability to compete in the application and selection process or that may interfere with an applicant's ability to perform the essential duties of the job. In order for the state to make such accommodations, applicants must make known any needed accommodation to the individual project managers or agency contacts listed. Persons using TDD may call the Montana Relay Service at 1-800-253-4091.

Form is available at http://architecture.mt.gov/.
If you experience problems with this form, please contact the A&E Division at AEDivision@mt.gov or (406) 444-3104.

FIRM OVERVIEWS

LPW ARCHITECTURE

ARCHITECTURE | ENGINEERING

Since 1953, L'Heureux Page Werner, PC has kept pace with emerging trends in the architectural sector with our forward thinking design solutions. We view our clients' challenges as our own and address issues inclusive of planning, phasing, budget control and schedules. Assisting our clients to surpass their goals, while supporting their bottom-line, is our number one priority. LPW's success is measured by client satisfaction.

We are prepared to dedicate all the resources necessary to provide you with the highest quality services. With the size of our firm, we are able to efficiently complete any project you choose to pursue, while maintaining the involvement of our most senior personnel on every effort.

Member of The American Institute of Architects

THE CLARK ENERSEN PARTNERS

SCIENCE & RESEARCH DESIGN | LAB PLANNING | ARCHITECTURE | ENGINEERING

The Clark Enersen Partners is an architecture, engineering, laboratory planning and design firm with offices located in Fort Collins, Colorado; Kansas City, Missouri; Lincoln, Nebraska; Fairway, Kansas; and Portland, Oregon. We were founded in 1946 and have a 72-year history of design excellence.

We have a team of in-house architects and engineers that specialize in laboratory facility design. Our in-house capabilities in laboratory planning and design, architecture, and engineering allow us to take a holistic approach to laboratory design, which leads to the seamless integration of engineering systems and equipment into the laboratory space. This ultimately has a positive impact on the research being conducted. Over the past 10 years, we have planned or designed more than $2 billion worth of science and research facility projects, including nine BSL/ABSL-3 laboratory facilities and over 40 facilities with an animal laboratory component. We are currently involved in the design of the 135,000-square-foot, $65 million State of South Dakota Animal Disease Research and Diagnostic Laboratory – which has ABSL-3 laboratories and houses the veterinary diagnostic laboratory for the State of South Dakota, and we recently completed the 64,000-square-foot Research Animal Diagnostic Laboratory for the University of Missouri in Columbia. We also have expertise with agricultural analytical laboratories, and seed and other crop science laboratories. We regularly present at national conferences and seminars related to laboratory facility design; and we are one of only two firms to be invited in the last eight consecutive years to speak at Tradeline's Annual Conference on Animal Research Facilities.

Conferences presented at: TRADELINE, TURNKEY CONFERENCE, I²SL International Institute for Sustainable Laboratories

EXPERIENCE

EXPERIENCE ON A WIDE VARIETY OF LABORATORY ENVIRONMENTS, INCLUDING BSL-2 AND BSL-3 FACILITIES

The Clark Enersen Partners has an in-house team of architects and engineers that specialize in the planning and design of scientific laboratory facilities. Over the past 10 years, these talented individuals have worked together to plan or design over $2 billion worth of laboratory spaces. These include a variety of laboratories for veterinary, animal, agricultural, academic and health science, and biomedical research, as well as analytical laboratories to investigate the quality of plants and crop seeds, and to evaluate wildlife, soil, water and air for contamination levels. Among these are laboratories that meet BSL-3 and ABSL-3 requirements. In addition, most of our other laboratory facilities are designed to meet BSL-2 or ABSL-2 standards. We provide you with the following list that shows the diversity of laboratory environments that we have planned or designed.

BSL-3/ABSL-3 FACILITIES

- Missouri State Health Lab - Jefferson City, Missouri
- South Dakota Animal Disease Research Diagnostic Laboratory - Brookings, South Dakota
- MU Regional Biocontainment Lab (grant only) - Columbia, Missouri
- UMKC School of Dentistry BSL-3 Suite - Kansas City, Missouri
- USDA Animal and Plant Health Inspection Services, Diagnostic Virology Laboratory (design only) - Ames, Iowa
- UNL Virology Laboratory (grant only) - Lincoln, Nebraska
- UMKC Health Sciences Research Building (concept plan only) - Kansas City, Missouri
- UNMC Durham Research Center Vivarium (concept plan only) - Omaha, Nebraska
- SDSU Seed Technology Laboratory - Brookings, South Dakota

ADDITIONAL SCIENCE FACILITY PROJECTS

VETERINARY + ANIMAL + AGRICULTURAL SCIENCE

- Fort Dodge Animal Health Global Research and Development Center
- Iowa State University, Field Services Building
- KU, Transgenic & Biobehavioral Measurement Animal Center
- KSU, Trotter Hall
- Missouri State University, Bond Learning Center
- Missouri State University, Temple Hall Vivarium
- NCTA, Education Center & Vet Tech Expansion
- NWMSU, Agriculture Learning Center
- State of South Dakota, Animal Disease Research & Diagnostic Laboratory
- SDSU, Dairy Microbiology
- SDSU, Seed Technology Laboratory
- SDSU, Precision Agriculture Facility
- UM, Research Animal Diagnostic Laboratory
- UM, National Swine Research & Resource Center
- UM, Animal Resource Center
- UM, Biocontainment Center
- UM, Connaway Hall Barrier Facility
- UM, Lab Animal Center Renovation
- UMKC, Laboratory Animal Center
- UMKC, Health Sciences Building Animal Facility
- UMKC, Medical Sciences Building Animal Facility
- UNL, Life Sciences Annex Addition & Renovation
- USDA Animal and Plant Health Inspection Services, Diagnostic Virology Laboratory

GOVERNMENT + INDUSTRY

- State of Missouri, Public Health Laboratory
- EPA Region 7, Center for Science & Technology
- Johnson County, Sunset Office/Water Quality Laboratory
- City of Olathe, Environmental Laboratory
- UNMC, National Center for Health Security & Biopreparedness
- Viracor IBT Laboratories
- Fort Dodge Animal Health Biological Research Campus
- Novartis Consumer Health Packaging Facility
- SAFC Biosciences Pin Milling Expansion
- Pfizer Inc. Bulk Biological Manufacturing Facility
- USDA Diagnostic Virology Center

ACADEMIC

- Chadron State College, Rangeland Complex
- Clarke University, Center for Science Inquiry
- Colorado Mesa University, Wubben Hall Science Center
- Columbia College, Science Building
- KSU, Durland Hall Renovation
- MS&T, Bertelsmeyer Hall
- MS&T, Schrenk Hall Renovation
- Nebraska Wesleyan University, 21st Century Science Bldg.
- Peru State College, Hoyt Science Bld Renovation & Addition
- SEMO, Magill Hall Addition & Renovation
- South Dakota School of Mines, Mineral Industries Building
- SDSU, Berg Hall Renovation
- SDSU, Biostress Teaching Laboratories
- UM, Lafferre Hall Engineering Addition & Renovation
- UM, College of Engineering Master Plan
- UNK, Bruner Hall of Science Addition & Renovation
- UNL, College of Engineering Master Plan
- Wayne State College, Carhart Science Building Renovation

PUBLIC-PRIVATE PARTNERSHIPS

- Nebraska Innovation Campus, Food Innovation Center
- Nebraska Innovation Campus, SDL III
- Colorado State University, Translational Medicine Institute
- Colorado State University, Equine Veterinary Teaching Hospital
- Colorado State University, South Campus Master Plan

HEALTH SCIENCES + BIOMEDICAL RESEARCH

- Black Hills State University, Life Sciences Building
- UNL, Center for Brain, Biology, & Behavior
- KCUMB, Dybedal Laboratory Renovation
- KU, School of Pharmacy
- KU, Simons Hall Bioscience Facility Renovation & Addition
- Rockhurst University, Gross Anatomy Laboratory
- SDSU, Avera Health & Science Center
- UAMS, Myeloma Institute
- UAMS, Clinical Pathology
- UAMS, Pharmacy Research Laboratory Renovations
- University of Michigan, College of Pharmacy
- UM, International Institute for Nano & Molecular Medicine
- UM, Dalton Cardiovascular Research Center Renovation
- UM, Marx Building MRI
- UM, Research Reactor Building Renovation
- UM, Schweitzer Hall Addition & Renovation
- UM, National Swine Research & Resource Center
- UMKC, Berkley Patton Research Space
- UMKC, Health Sciences Building
- UMKC, Youngblood Medical Skills Laboratory
- UMKC, School of Medicine Master Plan
- UMKC, Dental School Addition & Renovation
- UMKC, School of Dentistry Master Plan
- UNMC, Cruzan Center for Dental Research Add. & Renov.
- UNMC, Davis Global Center
- UNMC, Lozier College of Pharmacy & Education
- UNMC, Eppley Cancer Research Center

DATABASE OF LABORATORY COSTS

By virtue of our specialized laboratory experience over the past 20 years, The Clark Enersen Partners has developed a detailed database of costs for architectural and engineering components commonly used in a variety of laboratory spaces. This allows us to help our clients do a comparative benchmark analysis of other similar laboratory facilities throughout the country. This database also allows us to make reasonable assumption during the early study phases of the project to develop a reliable estimate of construction costs for planning and appropriation purposes.

ABILITY TO COLLABORATE & COMMUNICATE WITH A WIDE RANGE OF STAKEHOLDERS

Interdisciplinary collaboration on combined laboratory facilities is critical to the research that occurs in the laboratory space. In order to achieve a high level of interdisciplinary collaboration during research activities, it will be critical to collaborate with these scientists during the study and design process. In order to understand how to develop the correct design solutions, The Clark Enersen Partners' team of laboratory design specialists take great pride in understanding the nature and process of the actual research occurring within the space. As a result of our extensive specialized experience, we have learned how to communicate and develop the necessary rapport with scientists and researchers. This allows us to understand what they do, and conversely, allows us to help them understand what we do, which ultimately yields design solutions that are specific to their needs, and the creation of spaces that foster the interdisciplinary collaboration that is vital to the research that will occur in the State of Montana Combined Laboratory. Through our team's specialized laboratory expertise, we understand the terminology and thought process of scientist. For tangible evidence of our ability to collaborate with multiple stakeholders, including scientists, please see the following testimonials:

"I really enjoyed working with Greg and his team. ***They seemed to have an ability to get a great deal of work accomplished while at the same time making it fun and rewarding for all of the campus user's groups and stakeholders.*** *If we had progress submittals that indicated we were exceeding our cost budget, they would work to develop value-engineering "shopping lists" and bring those back for us to systematically review and consider so we could get back on track. Unlike some firms, they did not make us "feel guilty" for needing to make some difficult program or other reductions in order to ensure we met our budget."*

Jude Wawrzyniak, Project Manager
Campus Facilities – Planning Design and Construction | University of Missouri-Columbia

"Extremely innovative, fully engaged, whole building concept, and exceptional professional ability, are some of the hallmarks of Clark Enersen Partners' approach to the College of Engineering's Lafferre Hall 2009 addition. Clark Enersen's focus was, from day one, the College of Engineering's new addition; it was as if we were their only client. ***They quickly developed rapport with all personnel at the College through interviews, briefings, and numerous design proposals*** *which was quickly followed by a truly innovative design that showcased the historical portions of the 100-year-old Lafferre Hall and met the strict architectural standards of the University of Missouri."*

Marty Walker, Director of Administrative Services
Lafferre Hall & EBN Building Coordinator | University of Missouri – Columbia

"I have had the pleasure of working with Clark Enersen Partners over the last five years in the development, design and construction of the Health Sciences Building here at UMKC. Throughout the process, the people from Clark Enersen Partners were all top notch. ***They took extensive amounts of time to ensure that the building would be a true home for our faculty, staff and students.*** *In the initial stages, they were very thorough in reviewing our needs, including individual meetings with each of the faculty regarding their specific needs for their laboratories."*

Robert W. Piepho, Ph.D., F.C.P
Dean, School of Pharmacy | University of Missouri-Kansas City

"The Clark Enersen Partners is providing complete A/E services to the State of South Dakota for the South Dakota State University Science Building project. This project includes a new 97,000 S.F. teaching facility along with renovation of an existing building for research. The projected construction cost is $37 million. We continue to be more than impressed with The Clark Enersen Partners services. They are thorough, detailed, and timely. ***Most importantly, their collaborative team approach allows for unparalleled responsiveness to our needs.*** *This has made for a very enjoyable design experience."*

Marion Reich, PE
Former Project Engineer | The Office of the State Engineer | Pierre, South Dakota

*"It was a pleasure working with The Clark Enersen Partners on our laboratory expansion and renovation project. T****he team was always readily accessible and willing to work closely with our scientists to ensure the space would fit our needs.*** *Greg Lattig was particularly responsive and was a pleasure to work with. Our NIH review board remarked that their drawings were some of the best they have ever reviewed."*

Edward H. Blaine
Dalton Cardiovascular Research Center | University of Missouri-Columbia

LAB PROGRAMMING APPROACH

APPROACH AND METHODOLOGY TO PROGRAMMING

Our approach to the Combined State Laboratory Study will be an interactive process where we will share and learn from one another. In order to develop study recommendations that work for the State of Montana, it will be extremely important that we spend time in Bozeman with all of the appropriate project stakeholders to observe the way you are currently conducting your operations, learn about your desires for future operations, and use the knowledge that we have gained from experience on other similar projects to help us ask you the right questions. While we have experience on other State and University laboratories that are similar, we anticipate that the State of Montana will have research goals that are unique. We want to help you identify spatial concepts that facilitate and enhance your ability to be successful. As a team, we are committed to working with you to make well-informed decisions, and to provide long-term solutions that help you to better serve your constituents.

PROJECT KICKOFF AND DISCOVERY

We will begin the study by conducting a project kick-off meeting with the appropriate stakeholders from the State of Montana that could include, but not limited to, the Architecture and Engineering Division and department heads and scientists from each of the agencies to occupy the facility. The purpose of this meeting is to delineate roles and responsibilities of all team members; begin to identify project issues, goals, and objectives; identify others that need to be included in the process and to establish a project schedule with key milestone dates. We are strong believers in establishing project goals and objectives so that they can be used throughout the process as a measurement of success.

Concurrent with the project kick-off meeting, we will gather architectural and engineering drawings of your existing facilities, and physically tour these facilities to observe current operations in order to learn all we can about the day to day operations.

By virtue of LPW's proximity to the project site, and The Clark Enersen Partners' in-house capabilities in architecture, laboratory planning and design, engineering, and site planning and design, this will help us to coordinate the project efficiently, quickly grasp key challenges, develop holistic study recommendations, and formulate an accurate estimate of costs early in the process.

GATHERING OF SPACE NEEDS INFORMATION

In order to successfully identify the types of spaces and laboratories to be included in a combined state laboratory, we will conduct interactive on-site workshops with the appropriate stakeholders to accomplish the following:

- Identification of the types of spaces to be included in the combined laboratory facility
- Functions and activities to be conducted within each space
- Identification of estimated size and configuration of all spaces
- Determination of equipment and furnishing required for each space
- Analysis of required adjacencies and process flow
- Definition of necessary infrastructure and systems required to support all individual spaces
- Conceptual renderings of the facilities exterior (as necessary)

DEVELOPMENT OF COST ESTIMATES

Using the space needs information, we will develop a cost estimate for construction. During the study phase, we use a "macro" approach to cost estimating. As a result of our vast experience, we have a developed an extensive data base of construction costs for similar laboratory facilities. Using this database, we can make reasonable assumptions regarding potential architectural, mechanical and electrical systems and materials based on the programming information. This will allow us to develop a reliable cost profile for planning and appropriation purposes at this early stage of the process.

PREPARATION OF PRELIMINARY STUDY DELIVERABLES

We will combine the space needs information and cost estimate data and develop a narrative summary with graphic representation of the information gathered. We will present this information to the workshop participants. This will also be a very interactive process with feedback from the group to edit and modify the information in order to achieve consensus on study recommendations. These recommendations will include the identification of the type and size of spaces needed for the combined laboratory, a preliminary floor plan, a conceptual rendering of the facility, and a preliminary estimate of construction costs. We will use three-dimensional design software to illustrate these concepts, and we will facilitate a discussion until we achieve consensus on the desired study recommendations and deliverables.

FINAL STUDY DELIVERABLES

Upon achieving consensus of the study recommendations, we will refine the information presented previously and update the material, providing it in both a hard copy and digital format to the State of Montana. This information will provide justification of need and be appropriate for presentations to the appropriate governing agencies to help achieve funding.

ADDITIONAL INFORMATION

STATE OF MISSOURI
PUBLIC HEALTH LABORATORY

JEFFERSON CITY, MISSOURI

The Clark Enersen Partners worked with the Missouri Department of Health and the Division of Design and Construction on the new Missouri Public Health Laboratory. The facility was designed to meet guidelines set by the National Committee for Clinical Laboratory Standards. The laboratories, including 13,200 square feet of BSL-3, accommodates modern laboratory instrumentation and computers. The modular design of the laboratories allows flexibility for future growth and is adaptable to changing testing methods and procedures. Included in the facility are laboratories to conduct investigations in the areas of microbiology, virology, serology/immunology, chemistry, environmental bacteriology, breath alcohol, metabolic disease and tuberculosis. The entire upper third floor is dedicated to chemistry research. Support spaces include an administrative suite, scientist work areas, central accessioning, shipping & receiving, cold rooms, warm rooms and sterilization/decontamination. The building is designed and sited to efficiently utilize a sloping site and maximize views overlooking the Missouri River.

GENERAL SERVICES ADMINISTRATION
EPA REGION 7 SCIENCE & TECHNOLOGY CENTER

KANSAS CITY, KANSAS

The Environmental Protection Agency (EPA) Region 7 Science and Technology Center serves as a regional Midwest hub where scientists analyze soil, air, water, fish, and other wildlife to evaluate and monitor contamination levels. Working closely with GSA project management and EPA scientists, we developed a floor plan design solution that facilitates multidisciplinary collaboration with convenient access between the offices and laboratory spaces, and a site orientation that allows for future expansion without compromising critical space adjacencies, parking, and site circulation. Through the use of several innovative building systems and sensible sustainable design principles we were able to achieve a “Gold” rating on the LEED scoring system, as administered by the United States Green Building Council. At the time of its completion, it was the third laboratory building in the United States to achieve the Gold rating.

SOUTH DAKOTA STATE UNIVERSITY
PRECISION AGRICULTURE

BROOKINGS, SOUTH DAKOTA

In early 2016, The Clark Enersen Partners was selected, in association with a local South Dakota architectural firm, to assist with the programming, site selection, and conceptual design of the Precision Agriculture project at South Dakota State University (SDSU). Precision Agriculture is a new major offered at SDSU seeking to train the engineers and plant scientists that will create the next generation of technologically advanced farming equipment. The new major will be the first of its kind in the nation, integrating agricultural engineering, plant science, computer programming, and global positioning technologies to increase agricultural efficiency and productivity. The new building will fulfill three critical objectives as part of an ambitious plan within the College of Agriculture and Biological Sciences: 1.) Create a new home for the Precision Agriculture Major; 2.) Replace, modernize and expand the existing Agriculture Engineering facility; and 3.) Expand and modernize critical research laboratory space for Plant Science.

The program currently includes over 35,000 net square feet of wet research laboratory and support space, and over 33,000 net square feet of industrial research and teaching support space. All plant science teaching laboratories and the plant science teaching greenhouses will also be included in the new structure. This area will include teaching laboratories for Soils, Plant Pathology, and Crop Production all situated with direct visual and physical access to a state-of-the-art 6,700-square-foot teaching greenhouse and head house. The total project scope stands at over 100,000 net square feet with a budget target of $55 million.

UNIVERSITY OF NEBRASKA-LINCOLN
LIFE SCIENCES ANNEX, PHASE I & 2 ADDITION & RENOVATION

LINCOLN, NEBRASKA

The Clark Enersen Partners completed a renovation of the west wing of the existing Animal Research Facility at the University of Nebraska–Lincoln. This project was the first step in a phased approach to upgrade the entire facility. The project included the reconfiguration of interior spaces to improve operational efficiencies, a new mechanical/electrical room to house new system equipment, a new penthouse to replace the existing undersized penthouse, and general improvements throughout the wing. Seventeen new animal holding rooms were planned to be constructed, with each one having individual control of temperature, pressurization, and lighting. All new mechanical systems were designed to accommodate the current and all future renovation projects. Due to high uses of outside air in this facility type, an energy recovery system was included to reduce energy costs in the facility. Additionally, a demand-controlled ventilation was installed to allow the facility to use only the amounts of air that are required to maintain acceptable indoor air quality conditions.

COLORADO STATE UNIVERSITY
TRANSLATIONAL MEDICINE INSTITUTE

FORT COLLINS, COLORADO

The Clark Enersen Partners and Tetrad Property Group are currently working with Colorado State University on the new Translational Medicine Institute. The new 130,000-square-foot building will be located on the South Campus of the University. The building houses equine and small animal surgery suites and an extensive array of imaging systems including an MRI and CT on the first floor. The first level also contains a large surgical skills laboratory and instructional spaces utilized for training and continuing education.

Contemporary research laboratories designed with extensive flexibility are located on the second floor. These laboratories will house a diverse group of researchers involved in translational medicine. This level also contains over 5,000 square feet of innovation space to further and foster collaboration among the varying research groups. The third floor contains the executive offices, a large lecture hall and extensive gathering space for continuing education and training.

The building features a three-story atrium that spans the entire length of building and provides visual connectivity to many of the interior spaces the comprise the building. The journey down the atriums "main street" provides outstanding graphic opportunities to highlight the mission and tell the story of this unique facility. The building began construction in May of 2017 with an expected completion in November 2018. The project cost for the new facility is $77.8 million.

UNIVERSITY OF NEBRASKA MEDICAL CENTER
DAVIS GLOBAL CENTER FOR ADVANCED INTERPROFESSIONAL LEARNING

OMAHA, NEBRASKA

The Clark Enersen Partners worked closely with the University of Nebraska Medical Center to design one of the most advanced experiential health care training facilities in the nation. The $118 million Davis Global Center for Advanced Interprofessional Learning will feature leading-edge technology to help students understand real-life health care conditions and patient care techniques. Spaces will include 3D and virtual immersive learning studio; simulated clinical and community health care space, individual and team learning and assessment; and surgical skills simulation space. According to UNMC Chancellor Jeffrey Gold, "it's not just a building, it's a transformation in the way we think about education."