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TO: Chief Academic Officers & Directors, Offices of Research and Sponsored Programs

FROM: Teri Gallaway, Associate Commissioner for LOUIS

RE: I. Availability of Open Educational Resources Course Transformation Funds from

LOUIS: The Louisiana Library Network at the Louisiana Board of Regents

II. Timeline III. Notices

I. AVAILABILITY OF OPEN EDUCATIONAL RESOURCES COURSE TRANSFORMATION FUNDS FROM LOUIS: THE LOUISIANA LIBRARY NETWORK AT THE LOUISIANA BOARD OF REGENTS

LOUIS: The Louisiana Library Network, a program of the Louisiana Board of Regents is soliciting proposals for the Affordable Learning LOUISiana Open Educational Resources Course Transformation Program. The Call for Proposals (CFP) is now available on the webpage: <a href="https://louislibraries.org/alearningla/projects/transformations">https://louislibraries.org/alearningla/projects/transformations</a>. We would appreciate disseminating this notice as widely as possible on your campus.

The competitive Course Transformation Program provides financial and technical support to faculty to adopt, adapt, and/or create open materials. By design a course with zero costs for course materials, the initiative works to greatly reduce the direct costs to post-secondary students and contribute to their retention, progression, and graduation. We invite proposals in accordance with the CFP.

#### II. TIMELINE

June 1 − July 1, 2020: Proposals system open for submissions

July 1, 2020: Proposal deadline at 11:59 PM Central

July 1– July 15, 2020: Proposal reviewed by out-of-state reviewers

July 15, 2020: Announcement of awards

Week of July 20, 2020: Mandatory online kick off meeting for awarded projects

January 8, 2021: Course redesign scope of work deadline

Fall 2020 / Spring 2021: Initial semester of use for revised course May 31, 2021: Deadline for submission of contract deliverables

#### III. NOTICES

LOUIS will host webinars to provide guidance and to answer questions on June 2nd: 12:00-1:00 PM, June 17th 10:00-11:00 AM, and June 26th 2:00-3:00 PM. All will take place at <a href="https://zoom.us/j/2214546474">https://zoom.us/j/2214546474</a>.

For any questions about this memorandum or the CFP, please email Emily Frank, Affordable Learning Program Administrator (emily.frank@laregents.edu).

The LOUIS staff greatly appreciates your assistance in disseminating the information in this memorandum and work to ensure proposals are submitted in accordance with CFP guidelines. Our staff looks forward to working with you in the upcoming competitive cycle.

# Louisiana Board of Regents | LOUIS: The Louisiana Library Network Affordable Learning LOUISiana Open Educational Resources Course Transformation Program Call for Proposals

#### I. GENERAL INFORMATION

#### A. PUBLIC NATURE OF PROPOSALS SUBMITTED

Once a proposal is received by LOUIS, it becomes public record. Applicants should be aware that, if a request is made by the public (e.g., a faculty member or representative of the news media), a copy of the proposal, by law, must be provided.

#### **B. BRIEF INTRODUCTION**

This program provides financial and technical support to faculty wishing to adopt, adapt, and/or create open materials. By design a course with zero costs for course materials, the initiative works to greatly reduce the direct costs to students. Faculty at public institutions of higher education in Louisiana are eligible to apply as project leads.

## Selected applicants will receive the following:

- Compensation ranging from \$1,500-\$10,000
- Support from LOUIS in conjunction with LOUIS member libraries on instructional design and pedagogy, accessibility, and copyright, and to ensure dissemination of project outcomes including uploading content to the LOUIS OER Commons site
- Training and support from LOUIS staff and/or local academic library personnel on authoring tools

#### Selected applicants will provide the following:

- Attend a kickoff event online
- Adoption, adaption, and/or creation of Open Education Resources to transform a course to zero costs for course materials
- Creation of a detailed course syllabus with Creative Commons licensing
- Reporting of the impact of the course redesign

#### C. OBJECTIVES

This Open Educational Resources Course Transformation Program focuses on reducing the costs of higher education for Louisiana students by eliminating textbook costs. Textbook costs can be a significant barrier to student success, shaping everything from what majors are chosen to whether degrees are completed.

The purpose of the Course Transformation Program is to acknowledge and provide support for the time and effort it takes faculty and professional staff to redesign courses using open materials, and to empower Louisiana educators to contribute to the field of open educational materials. Funds are meant to preserve academic freedom and provide incentives and support for this critical work.

#### D. INFORMATION SESSIONS

LOUIS will host webinars to provide guidance and to answer questions on June 2<sup>nd</sup>: 12:00-1:00 PM,

June  $17^{th}$  10:00-11:00 AM, and June  $26^{th}$  2:00-3:00 PM. All will take place at <a href="https://zoom.us/j/2214546474">https://zoom.us/j/2214546474</a>

#### E. PROJECT CLASSIFICATIONS

The Course Transformation Program funds projects that result in the use, adaptation and/or development of Open Educational Resources (OER) in place of commercial textbooks. Open Educational Resources (OER) are "teaching, learning and research materials [..] that reside in the public domain or have been released under an open license that permits no-cost access, use, adaptation and redistribution by others with no or limited restrictions." (William & Flora Hewlett Foundation: https://hewlett.org/strategy/open-educational-resources/).

The result of the course transformation is a zero cost for course materials revised course. The strategies that can be implemented in the course transformation process are:

Adopt/Adapt	Those who "adopt" or "adapt" will be using existing resource(s) as-is or modifying resource(s), combining several existing resources with changes, or creating ancillaries for an existing resource.
	This includes projects in which curation or pre-existing material is combined with new resources to result in the creation of a new resource.
Create	Those who "create" OER will be creating the resource all or largely from scratch.

The resulting course(s) must not have course material costs. The only allowable cost following the transformation is the following:

Adoption of Homework/Adaptive Platforms: Adoption and implementation of low-cost or open homework and adaptive platforms to accompany affordable learning materials, such as OpenStax Tutor, WebAssign, Lumen Learning OHM, Lumen Waymaker, and Sapling Learning. To qualify as low-cost for a project, total costs to students such as online homework or courseware cannot exceed \$29.00 total per student. Any other required post-transformation costs will make the proposal ineligible.

"Create" projects should be based upon the awardees own work. "Adopt/Adapt" should use existing Creative Commons licensed works (allowing derivatives) or public domain works. Projects must avoid incorporation of works with non-transferable permission, 3rd party for-fee licensed materials (including library-subscribed resources), and free online materials without a Creative Commons license.

#### F. PROJECT TYPES

Туре	Award	Description
Adopt/Adapt:  Adoption with minimal changes for currency or relevance, and to the	\$1,500	A single faculty member redesigning one course using adoption/adaption.
content or structure.  Revision and/or remixing of open materials for accuracy, accessibility, clarity, design, and formatting to support learning objectives not met by existing open resources.  Creation of ancillaries, such as question banks or lecture slides, to	\$3,000	A single faculty member redesigning two or more unique courses using adoption/adaption.  Two or more faculty members, each teaching unique sections of one or more courses, collaborating to redesign using adoption/adaption.
support existing open materials.	\$6,000	Three or more faculty members, each teaching unique sections of one or more courses, at different Louisiana institutions collaborating to redesign using adoption/adaption.
Create Creation involves the authoring of	\$5,000	A single faculty member redesigning one course using creation.
open materials with breadth and depth to cover a course for a subject matter currently not or insufficiently covered by existing open materials.	\$7,000	A single faculty member redesigning two or more unique courses using creation.  Two or more faculty members, each teaching unique sections of one or more courses, collaborating to redesign using creation.
	\$10,000	Three or more faculty members, each teaching unique sections of one or more courses at different Louisiana institutions, collaborating to redesign using creation.

## G. COMPETITIVE PREFERENCE AND PRIORITIZATION

Competitive preference will be given to projects for courses that are included in the <u>Louisiana Statewide Common Course Catalog/Master Course Articulation Matrix</u> and for courses that support the LCTCS Career Clusters (see Appendix). For courses that map to one of these frameworks, additional preference will also be given if they align with a course that has not yet been funded to transition to open course materials.

Preference will be given to collaborative projects, as collaborative projects have a greater likelihood

that resources that will be adopted in multiple courses or sections.

#### H. ELIGIBILITY GUIDELINES

Only faculty members of public Louisiana institution of higher education may act as a lead. Full or part-time faculty may apply. Proposals may involve one person or teams of any of the following: teaching faculty, librarians, instructional designers, subject matter experts, editors, graphic designers, or others as needed. Individuals who are not employed by an eligible Louisiana institution of higher education (e.g., faculty from private institutions) may serve as consultants on applications; however, they may not be the project lead.

The application must be submitted by a single lead institution. If awarded, the project will be contracted with and managed by the lead institution, including being responsible for fund disbursement and following institutional guidelines to determine how to handle that distribution.

#### I. INSTITUTIONAL SCREENING COMMITTEE

Prior to submission, proposals must be screened by relevant staff at the institution. This process is to ensure adherence to eligibility criteria and institutional requirements and serves to confirm that the lead institution is capable of and has a current method in place to receive and distribute the funding allocation. This could include an administrator representing the academic unit, an academic officer from the administration, and/or a representative from the sponsored programs or procurement office.

#### J. TIMELINE

The following schedule for submission, assessment, and approval of projects will apply:

June 1 – July 1, 2020: Proposals system open for submissions

July 1, 2020: Proposal deadline at 11:59 PM Central

July 1– July 15, 2020: Proposal reviewed by out-of-state reviewers

July 15, 2020: Announcement of awards

Week of July 20: Mandatory kick off meeting for awarded projects

January 8, 2021: Course redesign scope of work deadline

Fall 2020 / Spring 2021: Initial semester of use for revised course May 31, 2021: Deadline for submission of contract deliverables

#### K. DURATION

Funded projects must teach at least one section of the associated course during initial semester of use either by the lead or an identified teaching partner in advance who will commit to using the open materials if the lead's section does not run. This first semester of use can be Fall 2020 or Spring 2021.

#### L. PROPOSAL REVIEW PROCESS

Selection is competitive. All submitted proposals receive external review by a team of out-of-state reviewers selected by LOUIS. In addition to considering the eligibility and competitiveness criteria, they will score and rank proposals using a rubric (see: Appendix) that includes the following:

- Impact on students and student savings
- Clarity and alignment between proposal, budget, and timeline
- Feasibility and reasonableness of the proposed work plan and roles
- Adherence to the proposal guideline

Funds will be allocated based on rankings and funding recommendations submitted by external reviewers in relation to available funding.

## M. POST-AWARD ACTIVITY

- 1. **AWARDEE KICKOFF:** Once funded, 1-3 team members must attend the online kickoff meeting via Zoom. The half day-long event will be scheduled for the week of July 20<sup>th</sup>.
- 2. POST-AWARD REPORTS: LOUIS will require the following reporting:
  - a. Regular updating with LOUIS project manager during completion of scope of work.
  - b. Following the first semester of use either Fall 2020 or Spring 2021, submission of a project report. Awardees will report measures of impact on student success and return on investment using LOUIS ROI tools as well as other elements provided in the final project report template to assess the effectiveness of the program. If Institutional Review Board (IRB) approval is required to obtain and report on these, that will be the responsibility of the campus/lead.

#### II. SUBMISSION OF PROPOSALS

#### A. PROCEDURES AND DEADLINE:

All proposals submitted to LOUIS must be complete upon submission and must be received electronically through the LOUIS website: <a href="https://louis.libwizard.com/f/OER-CFP">https://louis.libwizard.com/f/OER-CFP</a> by the deadline of 11:59 PM

Central Time on July 1, 2020. Note that prior to proposal submission, the proposal must receive campus approval via the institutional screening by the sponsored programs office or equivalent.

#### **B. COMPLETION AND SUBMISSION OF MATERIALS:**

Submission deadlines are absolute; all campus work on the proposal, including final approval and submission to LOUIS, must be completed on or before the deadline date and time. The submission process includes the following required elements:

- Completed application: Proposals must be submitted as one PDF or Word document using the applicant form.
- Letter(s) for support: Letter(s) of support may be attached to the application or submitted as a combined PDF document. At a minimum, the following letter(s) are needed: a letter from the sponsoring area (unit, office, department, etc.) of the lead institution that will be responsible for receipt and distribution of funding; for projects with collaboration between multiple institutions, letters of support must come from each institution's sponsoring area.

The online proposal submission system is timestamped, and proposals submitted after the deadline will not be considered. A submitted proposal may be released upon request if additional changes are needed, provided such request is made before the deadline for receipt. A revised proposal must be resubmitted through the LOUIS website prior to the deadline to be eligible for funding consideration.

When a proposal is submitted to the LOUIS website, the submitter has the option of including an email address to receive a confirmation email.

#### III. PROPOSAL REQUIREMENTS AND FORMAT

#### A. APPLICATION:

The application can be accessed and must be completed and submitted via <a href="https://louis.libwizard.com/f/OER-CFP">https://louis.libwizard.com/f/OER-CFP</a>.

#### **B. PROJECT DATE OF COMPLETION:**

Awarded projects will be under a one-year contract. Project work on the course transformation must be completed by January 8<sup>th</sup>, 2021 and all deliverables must be received May 31, 2021.

#### C. BUDGET:

Applicants must complete a budget and submit it with a corresponding narrative. This should detail the personnel and activity receiving allocations of the award and the amount of their allocation.

The lead institution will be responsible for fund disbursement. Budgets will be supported by state funds and therefore institutions spending project money must ensure compliance with state, Board of Regents, and institutional policies and procedures.

The lead institution will be issued a single distribution of the funding allocation and will be charged with the allocation disbursement, which must be done in accordance with campus, state and local policies. Funds may be paid as additional/overload compensation, supplemental pay, salary release, or another appropriate funding mechanism in adhering to the guidelines of the budget section below.

#### I. DISALLOWED BUDGETARY ITEMS

Any item deemed ineligible shall not be funded, regardless of the recommendations of the external consultants.

- Fund monies cannot be used for ongoing operational costs of existing or proposed programs, entities, or projects. Applicants must make a case in their proposals that what they are proposing does not violate this stipulation. Applicants should also be aware that LOUIS will make out-of-state evaluators aware of this prohibition, as well as the current economic climate for higher education in Louisiana.
- Indirect costs may not be requested.
- Funds may not be requested for the purchase, maintenance, or repair of equipment. Long-term maintenance contracts for equipment cannot be requested.
- Applicants should also note that the scope of the program does not permit: (1) construction of facilities; (2) routine renovation or upgrading of facilities; (3) paying faculty from the submitting university to train other faculty at the same university or at other universities; (4) purchase of standard motorized vehicles such as cars, vans, boats, etc.; or (5) purchase of standard office furniture or routine office equipment (e.g., copiers, desk chairs). The proposal must detail and fully justify the specific educational and/or research uses of the requested equipment as related to project goals, objectives and activities.
- The scope of the program does not permit funds to be used for entertainment costs, with the exception of meals for consultants or other professionals brought to the State as part of a funded project. Funds may not be used for receptions, group meals for faculty and students, refreshments, performers, and or other entertainment. While they are disallowed from project funding, they are permissible activity if funded by an institutional or private match.

- Individual or institutional memberships are not allowable.
- Support may not be requested for graduate and/or undergraduate students either working on the project or to be provided with fellowship or scholarship support aligned with project goals and objectives. Funds may not be requested to pay tuition or fringe benefits for graduate or undergraduate students.

#### II. FUNDS FOR PROJECT LEAD AND SUPPORT PERSONNEL

Funds may be requested for faculty or staff support. Salary support may be requested as release time in proportion to the amount of time each affected employee is expected to contribute to the project. Funds can cover faculty and staff time and compensation, including course release time, overload pay, summary salary, stipends, additional compensation for work performed outside of regular duties or work hours, or replacement coverage, depending on institutional and departmental policies. Both faculty and staff should qualify for compensation or release time for their work on a project, subject to institutional guidelines. If compensation is paid as salary support, appropriate fringe benefits can be included and must be within the budget.

Consultants may receive honoraria or similar one-time payments commensurate with services rendered to the project but may not receive salary-based payments. Collaborating partners who are not employed at Louisiana institutions may not receive salary support or other compensation through this program.

Funds can also cover project expenses, including related department needs and travel expenses. These must adhere to State regulations and travel-related expenses must be charged at State rates set forth in the Louisiana Travel Guide (PPM 49), including exemptions granted by the Division of Administration.

The budget narrative must provide detailed explanations of the type of salary requested, regular salary level, percentage of effort committed, campus guarantee of appropriate release, and justification in terms of project work to be performed for each individual requesting support. All non-compensation expenditures must be fully justified in terms of their necessity in accomplishing the goals of the project and the program, and costs itemized in the proposal.

# IV. APPENDIX

Louisiana Board of Regents | LOUIS: The Louisiana Library Network

Affordable Learning LOUISiana | Open Educational Resources Course Transformation Projects

PROJECT PROPOSALS COVER SHEET

# **Contact & Project Information:**

The **applicant** is the lead for the project, the person responsible for project management and reporting. The **submitter** is the person submitting the application (such as a Grants Officer or Administrator. It can be the applicant – if so, leave the submitter fields blank.

Applicant Name	
Applicant Email	
Applicant Phone #	
Applicant Position/Title	
Lead Institution	
Submitter Name (if	
different)	
Submitter Email	
Submitter Phone #	
Submitter Position/Title	
Project Title	
Project Type	
(Adopt/Adapt or Create)	

**Brief summary of proposed project (max 250 words):** 

# PROJECT PROPOSAL

# **Proposal Team Members**

List all persons that make up project team. Provide their name, institution, email address, and role:

Identify the campus signature authority for entering into a contract (LOUIS will identify the person with system-level signature authority):

# **Project Information and Anticipated Impact**

\*\* For the following, if proposing multiple courses, copy table and complete for each course \*\*

<b>Course Name and Course Number</b>	a) Class prefix and number
for proposed Transformation	b) Title of class
<b>Project</b> (if multiple institutions, note	
institution)	
Are the proposed courses included	
in the Louisiana Statewide Common	
Course Catalog/Master Course	
Articulation Matrix or do they	
support the LCTCS Career	
Clusters?	
<b>Initial Semester of Use for</b>	
Redesigned Course	
Original Required Materials and	Enter information for each required textbook,
Cost Per Student	homework platform, or other required materials for
	the course <u>before</u> the project.
	a) Title
	b) Author(s)
	c) ISBN
	d) Retail cost ("new" price from Amazon or
	bookstore)
Doct Droingt Coat Day Stradout	
Post-Project Cost Per Student	List any materials costs, such as low-cost homework
	platforms, that will be required <u>following</u> the project.

#### **Student Savings Calculation**

Calculate potential student savings from this project based on instructors that have committed to using the resource. Add more rows if necessary.

Instructor Committed to Adopting the Resource	Institution	Number of sections taught each year	Average Number of Students Per Section	Cost of Resource(s) to Be Replaced at Institution	Cost Savings
	Total Cost Savings Per Year:				

For the following narrative questions, consult the reviewer rubric to ensure that all elements are addressed.

#### **Project Goals & Outcomes (max 1 page)**

Describe the project goals and anticipated outcomes, and how the project supports the intent of this program.

This may include sharing what you plan to do to replace the current course materials (e.g., use an existing open textbook, adopt an open textbook, gather resources, or develop materials), what you envision the final product will look like, and your goals in terms of student savings, student success, materials adaptation, pedagogical transformation.

#### **Project Management (max 1 page)**

Outline local capacity and resources and describe how these are adequate given the scope of the project. Describe how you will undertake this activity to ensure it is manageable and successful.

Course transformation requires project management to be successful. This section allows you to describe the activities expected of each team member and how the team will manage the work to fulfill the goals of the project.

#### **Current Landscape (max 1 page)**

Describe if openly licensed materials exist that align with the student learning outcomes for the propose course(s). Have you identified and reviewed open materials? If you are creating new materials, how did you determined there to be gaps in current offerings that require creation of new materials?

Projects should be based upon the awardees own work, existing Creative Commons licensed works (allowing derivatives), or public domain works. Projects must avoid incorporation of

works with non-transferable permission, 3rd party for-fee licensed materials (including library-subscribed resources), and free online materials without a Creative Commons license.

# Timeline (max 1 page)

Provide an outline from project funding to the final report, listing major milestones for the project.

Funded projects must teach at least one section of the associated transformed course during Fall 2020 or Spring 2021 semesters, either by the lead or an identified teaching partner in advance who will commit to using the open materials if the lead's section does not run.

# Budget (max 1 page)

Provide a budget breakdown of personnel and projected allocations based on the award amount. Include narrative to fully describe how funds will be allocated.

Award amounts found in CFP Section F) Project Types. Include overall personnel and projected expenses. Funds can cover faculty and staff time and compensation, including course release time, overload pay, and replacement coverage, depending on institutional and departmental policies. Both faculty and professional staff on awarded teams should qualify for compensation or release time for their work on a project, subject to institutional guidelines and in adherence with the CFP requirements.

# Sustainability Plan (max 1 page)

How often do you anticipate revisions/updates will be required? How will you approach the maintenance and updating of the course materials?

Course transformation projects should have a lasting impact on the course for years to come. Share how you will maintain and update course materials. Note where any possible expansion of the project to cover more course sections in the future. Share any plans for encouraging wider adoption throughout the state.

# **REVIEWER RUBRIC**

Title of Project:	<b>Reviewer Name:</b>	

# **Scoring Model**

Overall Impact	Score	Descriptor
	1	Poor
Low	2	Marginal
	3	Fair
	4	Satisfactory
Medium	5	Good
	6	Very Good
	7	Excellent
High	8	Outstanding
	9	Exceptional

	Score	Notes, Justification
Student Savings Impact:		
Anticipated impact in terms of number of		
classes, savings, and number of students		
affected.		
<b>Project Goals &amp; Outcomes:</b>		
Articulation of goals and outcomes of this		
project and alignment of those goals and		
objectives with those of this program.		
<b>Project Management:</b>		
Articulation of the process that would be		
undertaken to attain project goals and		
outcomes. Organization and feasibility of		
approach and alignment of described		
resources with project scope.		
Current Landscape:		
Demonstration of process to assess		
available materials. Confirmation that		
proposed project aligns with availability of		
materials or lack thereof.		
Timeline & Budget:		
Allocations reflect plausible estimate of the		
time and money required to achieve goals		
and work plan and given CFP		
requirements.		
Sustainability Plan:		
An understanding of the work and time		

required to sustain the work following	
project, and a plan consistent with that.	
Statewide Alignment:	
Affected course(s) is included in the	
Louisiana Statewide Common Course	
Catalog/Master Course Articulation Matrix	
or supports the LCTCS Career Clusters.	
For courses that map to one of these	
frameworks, additional preference will also	
be given if they align with a course that has	
not yet been funded to transition to open	
course materials.	
Collaboration:	
Preference will be given to collaborative	
projects, as collaborative projects have a	
greater likelihood that resources that will	
be adopted in multiple courses or sections.	
<b>Total Points</b>	/ 72 Possible

# LCTCS CAREER CLUSTERS

CAREER CLUSTER	CAREER PATHWAYS	
Agriculture, Food & Natural	Forestry Technology	
Resources	Horticulture/Landscape	
	Horticulture Technology	
	Veterinary Assistant	
	Veterinarian Technology (NSU Veterinary Technology)	
Architecture & Construction	Air Conditioning & Refrigeration (HVAC)	
	Building Technology Specialist	
	Cabinet & Furniture Construction	
	Carpentry	
	Construction Engineering Tech-Construction Management	
	Construction Technology	
	Electrician	
	Electric Line Technician	
	Electrical Technology	
	Industrial Control Systems	
	Industrial Maintenance Technology	
Arts, A/V Technology &	Commercial Art	
Communication		
	Communication Media	
	Entertainment Technician/Technology	
	Graphics Arts	
	Photography	
Business, Management &	Accounting/Accounting Technology	
Administration	Business Administration	
	Business Technology	
	Computer Information Technology	
	Computer Specialist	
	Logistics Technology	
	Office Systems Technology	
Education & Training	Child Development	
	Education	
Health Science	ASN Nursing	
	Biomedical Technology	
	Clinical Laboratory Technician	
	Dental Hygiene	
	Dietetics	
	EMT/Paramedic	

	Health Care Management
	Health Information Technology
	Massage Therapy
	Medical Assistant
	Medical Coding
	Nurse Assistant
	Occupational Therapy
	Patient Care Technician
	Pharmacy Technician
	Physical Therapy
	Practical Nursing
	Radiologic Technology
	Respiratory Care Technology
	Surgical Technology
Hospitality & Tourism	Culinary Arts
	Hospitality & Tourism
	Personal and Culinary Services
Human Services	Early Childhood Development & Services
	Family and Consumer Sciences
	Human Sciences
Information Technology	Basic Digital Electronics
	Basic Industrial Electronics
	Biomedical Equipment Technology
	Computer Electronics
	Consumer Electronics Technician
	Computer Information Systems
	Computer Network Technology
	Computer Technology
	Information Technology
	Industrial Electronics Technician
	Networking
	Web Design
Law & Public Safety	Criminal Justice
	Fire Service Technology and Firefighting
	Paralegal
	Law Enforcement
Manufacturing	Industrial Manufacturing Technology (includes C4M)
	Machine Tool Technology
	Pipefitting
	Process Technology
	15

	Welding	
Science, Technology,	Engineering Technology	
Engineering, & Mathematics	Forensic Science	
(STEM)	Medical/Clinical Laboratory Technology	
	Mechanic and Repair Technologies	
	Engineering Related Fields	
Skilled Craft	Boilermaker	
	Carpentry	
	Concrete Finisher	
	Crane Operator	
	Electrical	
	Electrical Line Technician	
	HVAC	
	Heavy Equipment	
	Instrumentation Technician	
	Insulation	
	Ironwork	
	Millwright	
	Painter	
	Pipefitter	
	Pipelayer	
	Scaffolding	
	Sheet Metal	
	Welding	
Transportation, Distribution,	Automotive Technology	
& Logistics	Automotive Maintenance Technician/ Technology	
	Aviation Maintenance Technology	
	Collision Repair Technology	
	Commercial Driving	
	Diesel Engine Technician	
	Diesel Power Equipment Technology	
	Heavy Construction Vehicle Operator	
	Marine Operations	
	Transportation Technician	