



Pathway: Electromechanical Generation & Maintenance

Plan of Study: Electro-Mechanical and Energy Technology

Program: Electro-Mechanical and Energy Technology

Career Goal (O*Net Code): [CIP 15.0503 to SOC Crosswalk](#); [O*Net Search for Careers Related to Electro-Mechanical Technician](#); [Energy Technician](#)

(Click below to access education, skills, and employment outlook information)

- | | |
|--|---|
| 17-3024.00 Electro-Mechanical Technicians | 47-4099.02 Solar Thermal Installers and Technicians |
| 17-3029.09 Manufacturing Production Technicians | 49-9081.00 Wind Turbine Service Technicians |
| 51-8013.00 Power Plant Operators | 47-2231.00 Solar Photovoltaic Installers |
| 17-3023.01 Electronics Engineering Technicians | |
| 51-8012.00 Power Distributors and Dispatchers | |
| 49-2094.00 Electrical and Electronics Repairers, Commercial and Industrial Equipment | |
| 49-2095.00 Electrical and Electronics Repairers, Powerhouse, Substation, and Relay | |

- Bright Outlook - Green

Relevant Occupational Experience

(Your Life Experiences may be worth College Credit!)


CCCS Credit for Prior Learning Guide

FRCC Credit for Prior Learning

- [FRCC Standards for Awarding](#)
- [Policies and Procedures](#)
- [Transferability](#)

LMI Gateway Link to Related Occupations

Possible Pathways to your Career!

	Programs Available 	Program Length (*Based on meeting Program Entrance Requirements)	Estimated Tuition (*Based on Resident Tuition after COF)	Possible Career Options	Salary Range
Certificate Option(s)	Electro-Mechanical and Energy Technology	31 Credits	<u>\$3,871.90</u>	Manufacturing Production Technician, Power Plant Operator, Electrical and Electronics Repair Technician (commercial & industrial equipment), Electrical and Electronics Repair Technician (powerhouse, substation, relay), Power Distributors & Dispatchers, Electromechanical Technician, Utility Engineering Technician (Electronics Engineering Technician)	\$\$ - \$\$\$
AAS Degree	Electro-Mechanical and Energy Technology AAS Degrees: - Electrical/Mechanical - Power Technology	63 Credits 61 Credits	<u>\$7,868.70</u> <u>\$7,618.90</u>	Manufacturing Production Technician, Power Plant Operator, Electrical and Electronics Repair Technician (commercial & industrial equipment), Electrical and Electronics Repair Technician (powerhouse, substation, relay), Power Distributors & Dispatchers, Electromechanical Technician, Utility Engineering Technician (Electronics Engineering Technician)	\$\$ - \$\$\$
Articulation Opportunities to Advanced Degrees:					
Advanced Degree(s)	Associate's to Bachelor's® Program at Regis University College for Professional Studies (CPS) Bachelor's and Graduate Degrees in fields like Electrical Engineering, Environmental Engineering or Environmental Science (<i>Associate Degree + 60 for BA/BS Degree & Bachelor's Degree + 2-4 years in Graduate School for MA</i>)		Regis Tuition Information Colorado Tuition Information	For more information about colleges that have these programs go to www.CollegeinColorado.org	\$\$\$-\$\$\$\$
	College Tuition Comparison Guide				

* \$ = \$15-25,000; \$\$ = \$25-55,000; \$\$\$ = \$55-90,000; \$\$\$\$ = Above \$90,000

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Extended Learning Experiences

Student Services & Support Structures:

- [Academic Advising](#)
- [Academic Support Labs](#)
- [Admissions and Records](#)
- [Bookstores](#)
- [Career Counseling](#)
- [Crisis Counseling & Stress Management Services](#)
- [Disability Services](#)
- [English as a Second Language](#)
- [General Education Development \(GED\)](#)
- [Tutoring](#)
- [Libraries](#)
- [Student Email](#)
- [Student Employment Services](#)
- [Student Life](#)
- [Testing Center Services](#)
- [Veteran Services](#)

Financial Aid:

- [FAFSA](#)
- [Grants](#)
- [Work Study](#)
- [Loans](#)
- [Scholarships](#)

Professional Affiliations:

- [Association of Energy Engineers](#)
- [American Solar Energy Society](#)
- [American Wind Energy Association](#)

Practical Learning Experiences:

- [Internships](#)
- [Career Preparation](#)
- [Service Learning/Volunteering](#)
- [Student Experiences](#)

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Physical & Sensory Requirements, Electro-mechanical and Energy Technology

Key: N = Never O = Occasional: 1 – 33% of time F = Frequent: 34 – 75% of time C = Constant: 76 – 100% of time

PHYSICAL CAPABILITIES					SENSORY CAPABILITIES														
Activity	Frequency				Activity	Frequency				Activity	Frequency								
	N	O	F	C		N	O	F	C		N	O	F	C					
Lift/Carry					Push/Pull					Walk					Able to see clearly at both near and far distances				
10 lbs or less					15 lbs or less					Sit					Able to identify and distinguish colors				
11-20 lbs					16-30 lbs					Stand					Able to judge distances and spatial relationships				
21-50 lbs					31-50 lbs					Fine motor manipulations					Able to communicate verbally and in writing				
51-100 lbs					51-100 lbs					Gripping					Able to distinguish between sounds such as telephone vs. fire alarms, tone of voice, varied decibels				
100+ lbs										Squat/Kneel					Able to perceive attributes of objects such as size, shape, temperature, texture through touch				
										Bend									
Drive					Computer					Twist/Turn									
Manual					Data Entry					Crawl									
Automatic					Use of mouse					Climb									
										Reach above chest									
										Reach outward									

For more information on the Physical & Sensory Requirements for this Pathway, please contact:

Disability Support Services

- [Boulder Campus](#): (303) 678 - 3922
- [Larimer Campus](#): (970) 204 - 8112
- [Westminster Campus & Brighton Center](#): (303) 404 - 5676

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