

Post-doctoral Researcher  
University of Connecticut

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Posted Jun. 24, 2020, expired Oct. 24, 2020

<b>Job Title</b>	Post-doctoral Researcher
<b>Department</b>	Chemical & Biomolecular Engineering <a href="https://ccast.uconn.edu/">https://ccast.uconn.edu/</a>
<b>Institution</b>	University of Connecticut Storrs, Connecticut
<b>Date Posted</b>	Jun. 24, 2020
<b>Application Deadline</b>	Open until filled
<b>Position Start Date</b>	Fall 2020
<b>Job Categories</b>	Post-Doc
<b>Academic Field(s)</b>	Electrical and/or Electronics
<b>Apply By Email</b>	<a href="mailto:jeffrey.mccutcheon@uconn.edu">jeffrey.mccutcheon@uconn.edu</a>

**Job Description**

The Connecticut Center for Applied Separations Technologies (CCAST) focuses on applied research in the field of liquid and gas separation technologies, evaluating potential solutions to separation challenges for industrial clients, as well as government grant-funded research.

The center is constructing automated systems in order to evaluate various membrane processes. The successful candidate will be responsible for designing the controls logic for these systems, as well as other aspects of system construction and testing.

The position will be located at the University of Connecticut's Storrs campus. The Executive Director of CCAST is Professor Jeffrey McCutcheon.

**DUTIES AND RESPONSIBILITIES**

Write ladder logic for automated systems and perform coding for HMI;

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- Design and wire electrical enclosures;
- Perform systems shakedown and initial testing;
- Train others to perform the above tasks;
- Oversee others in system fabrication;
- Write operations manual for systems.

### MINIMUM QUALIFICATIONS

- Experience with PID control;
- Experience writing ladder logic for PLCs or similar;
- Basic electrical wiring knowledge;
- Engineer level of understanding of fluid flow;
- Excellent teamwork, interpersonal, and communication skills, including flexibility to accommodate change, positive attitude, and willingness to mentor/train other personnel;
- Strong organizational skills with effective time and task management.

### PREFERRED QUALIFICATIONS

- Experience wiring electrical enclosures and best practices;
- Experience with VFD motor controllers;
- General knowledge of typical instrumentation (pressure, temperature and flow) used in the separations field and their limitations;

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Experience generating Piping & Instrumentation Diagrams.

APPOINTMENT TERMS

TBD

TO APPLY

Please send cover letter and CV to Prof. Jeffrey McCutcheon at [jeffrey.mccutcheon@uconn.edu](mailto:jeffrey.mccutcheon@uconn.edu).

**EEO/AA Policy**

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**Contact Information**

Please reference Academickeys in your cover letter when applying for or inquiring about this job announcement.

**Contact** Jeffrey McCutcheon  
Chemical & Biomolecular Engineering



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