Intern Request Form

Project reports to (name, title, location, phone):

Eric O'Brien, Design Manager, 195 GH – C16, 860-727-2658

If different from person reporting to please indicate the person screening students (name, title, phone)

Project Name: Next Generation Cell Stack Design

Department/Function/Group Name: Design Engineering

Barc #

Location of intern (Location, building, mailstop): 195 Governor’s Hwy., TBD

Assignment Description (please include business impact):

Design and Validate a specific component within the next generation cell stack.

Deliverables:
Creo CAD model of design
Validation Test Plan
Validation Test Report
Technical Review Presentation

Estimated steps of project (timeline of 12-14 weeks): (if known)
TBD

Why the student should accept this project (selling points):

Learn the design process
Experience with Creo CAD Software
Experience interfacing with manufacturing and suppliers
Possible lab experience depending on component
Intern Request Form

Project reports to (name, title, location, phone):

Eric O'Brien, Design Manager, 195 GH – C16, 860-727-2658

If different from person reporting to please indicate the person screening students (name, title, phone)

Project Name: Power plant Component Redesign for Cost

Department/Function/Group Name: Design Engineering

Barc #

Location of intern (Location, building, mailstop): 195 Governor's Hwy., TBD

Assignment Description (please include business impact):

Redesign and validate a specific component within the fuel cell power plant to reduce product cost.

Deliverables:
Creo CAD model of design
Validation Test Plan
Validation Test Report
Technical Review Presentation

Estimated steps of project (timeline of 12-14 weeks): (if known)
TBD

Why the student should accept this project (selling points):

Learn the design process
Experience with Creo CAD Software
Experience interfacing with manufacturing and suppliers
Possible lab experience depending on component
Intern Request Form

Project reports to (name, title, location, phone):
Roop Sukhram, Cell stack electrodes lead, 860-727-2229

If different from person reporting to please indicate the person screening students (name, title, phone)

Project Name: Cell stack engineering

Department/Function/Group Name: CSA – FPS Engineering

Barc #

Location of intern (Location, building, mailstop): 195 governor’s Hwy

Assignment Description (please include business impact):
The intern will be supporting new catalyst evaluation and new electrode process development activities.

Deliverables:
Down select at least 2 catalyst that meet M400 performance requirements. Define process flow for new electrode manufacturing process.

Estimated steps of project (timeline of 12-14 weeks): (if known)
14 weeks

Why the student should accept this project (selling points):
Provides student with the opportunity to use their core chemical engineering skills in industry.
Intern Request Form

Project reports to (name, title, location, phone):
Brian Chakulski, Systems Manager, 195 Governor’s Highway, 860-727-7284

If different from person reporting to please indicate the person screening students (name, title, phone)

Project Name: M400 Sustaining

Department/Function/Group Name: Electrical

Barc #

Location of intern (Location, building, mailstop): 195 Governor’s Highway

Assignment Description (please include business impact):
Electrical engineer will work on the following:
- Troubleshooting
  - Factory
  - Performing root cause analyses on components that have failed in Field
- Electrical System Design
  - Multi-Unit Load Sharing (MULS) system
  - Enhanced GI

Timely troubleshooting is required to reduce Period costs
MULS/Enhanced GI can become a market differentiator

Deliverables:
- RRCA (root cause) closeout presentations
- Test Reports
- Design analysis

Estimated steps of project (timeline of 12-14 weeks): (if known) Unknown at this time

Why the student should accept this project (selling points):
This position offers a lot of variety (hands-on experience and design development) on an exciting product.
Intern Request Form

Project reports to (name, title, location, phone):

Nicholas Osepowicz, Project manager, 860-727-2433

If different from person reporting to please indicate the person screening students (name, title, phone)

Project Name: Fuel processing

Department/Function/Group Name: CSA – FPS Engineering

Barc #

Location of intern (Location, building, mailstop): 195 governor’s Hwy

Assignment Description (please include business impact):
The intern will be supporting next gen FPS catalyst evaluation. This person will also be working on dirty gas cleanup concepts.

Deliverables:
Provide a report on down selected FPS catalysts. Define functional requirements for dirty gas cleanup skid.

Estimated steps of project (timeline of 12-14 weeks): (if known)
14 weeks

Why the student should accept this project (selling points):
Provides student with the opportunity to use their core chemical engineering skills in industry.
Intern Request Form

Project reports to (name, title, location, phone):
Brian Chakulski, Systems Manager, 195 Governor’s Highway, 860-727-7284

If different from person reporting to please indicate the person screening students (name, title, phone)

Project Name: M400 Sustaining

Department/Function/Group Name: Mechanical Balance of Plant

Barc #

Location of intern (Location, building, mailstop): 195 Governor’s Highway

Assignment Description (please include business impact):
Mechanical engineer will work on the following:
- Component Test Stand
  - Will provide the company a means of testing low cost pumps, blowers, etc
- Investigation of Field component failures
- Requirement generation / component compliance matrices
- Supplier interaction

Deliverables:
- RRCA (root cause) closeout presentations
- Component Test Stand Design

Estimated steps of project (timeline of 12-14 weeks): (if known) Unknown at this time

Why the student should accept this project (selling points):
This position offers a lot of variety (hands-on experience and design development) on an exciting product. The engineer will gain experience in interacting with suppliers