Research Scientist 3

The Research Scientist 3 in the Department of Aeronautics and Astronautics provides engineering expertise to all department research groups and well as Undegraduate design classes.

The Research Scientist provides upgrades to the laboratories, develops experimental equipment, coordinates with faculty and teaching assistants regarding the use of the laboratories, and schedules and maintains the operations of the laboratories. The Research Scientist maintains inventory of the Instructional Laboratories, including safety, documentation, tools, the proper storage of equipment and supplies, and materials belonging to the laboratories

The Research Scientist will teach user operation and safety classes for equipment and Instructional Laboratories, establish and enforce safety rules and standards, inspect and evaluate performance of the department’s shared equipment. The Research Scientist will handle laboratory gases in CG cylinders, chemicals and fuels used in hobby aircraft and model rocketry, and chemicals used in traditional university undergraduate aerospace experiments.

The Research Scientist works independently with very little guidance, determines scope of incoming work, resources and prioritizes work. Work is performed according to the mission and priorities of the department.

Typical duties and responsibilities:
- Manages all 3D printing facilities and Engineering support
- Lead Engineer for Academic and Research projects
- Expansion and upgrade to all instructional facilities
- Design of complex instruments
- Assist Researcher with design and fabrication assistance for their projects that leads to new proposals or assist with accomplishing already existing funded projects.
- Evaluates incoming work for feasibility, costs, timelines etc.
- Creates procedures, methodology for inter-departmental equipment usage.
- Works with staff and faculty to accomplish tasks and projects.

Required Education and experience:
Masters in Mechanical Engineering
6 years industry and 7yrs academic experience