

## GRADUATE ASSISTANTSHIP POSITION DESCRIPTIONS

### DEPARTMENT OF ENGINEERING AND TECHNOLOGY

Position	Description
<b>Computer Networking Administration</b>	Graduate student would help oversee lab activities in the networking lab. This additional help is often needed to extend “lab hours” beyond the scheduled class time to provide students with extra time or help. GA will also maintain “open lab” hours to assist students outside of class. GA will update labs and configure lab equipment as needed. The GA will also hold “office hours” or be used for grading. The ideal applicant will be familiar with Cisco networking equipment and VMware.
<b>Construction Management</b>	Graduate student would help oversee lab activities in the construction lab. This additional oversight is critical since many of these labs involve students using potentially dangerous equipment. As time permits, GA could also help develop course materials or be used for grading. The ideal applicant will be familiar with the software, tools and procedures commonly used in residential and commercial construction projects, including excel, CAD software, power tools and surveying equipment.
<b>Electrical &amp; Controls</b>	The hard-working and self-motivated graduate student would help oversee lab activities in the electrical and electronics lab. This additional help is often needed to extend “lab hours” beyond the scheduled class time to provide students with extra time or help. The GA would also hold “office hours” or be used for grading. This position requires someone who is comfortable working with high voltage and high current. The ideal applicant will be familiar with the electrical equipment, such as meters, oscilloscopes, PLCs, and circuit boards, and electrical software, such as MATLAB and PSPIICE. Preference will be given to someone with knowledge in microcontrollers and electrical machines.
<b>Engineering &amp; Technology Recruitment</b>	Student assists with recruitment including creating materials, conducting events and visiting prospective schools. The ideal applicant will have significant attention to detail and be able to work independently on tasks.
<b>Industrial Management</b>	Graduate student would help oversee classroom and lab activities associated with several classes in the industrial management area (such as statistical process control and engineering economics). This additional help is often needed to provide one on one assistance and/or extend “lab hours” beyond the scheduled class time to provide students with extra time or help. GA will help develop classroom materials as appropriate and may present a lecture. As time permits, GA could also hold “office hours” or be used for grading. The ideal applicant will be very familiar with statistical analysis and the use of software tools, such as Excel, for the analysis of data.
<b>Manufacturing &amp; Machining</b>	Graduate student would help oversee lab activities in the machining lab. This additional oversight is critical since many of these labs involve students using potentially dangerous equipment. As time permits, GA could also help develop course materials or for grading. The ideal application will be familiar with CNC machining and manual machining processes.
<b>Mechanical</b>	Graduate student would help oversee lab activities in the mechanical labs. This additional oversight is critical since many of these labs involve students using potentially dangerous equipment. As time permits, GA could also help develop course materials or for grading. The ideal applicant will have significant attention to detail, be able to work independently on tasks, and have an understanding of mechanical systems.
<b>Technical Communication</b>	Graduate student would assist with the technical communication. GA responsibilities would include grading English communication assignments, providing feedback to students, and working with students both one-on-one or in a group. Additional help may also be needed to provide one-on-one assistance and/or extend “lab hours” beyond the scheduled class time to provide students with extra time or help. The ideal applicant will be fluent in English communication, especially as it pertains to technical documents and presentations.
<b>Unmanned Aircraft Systems</b>	Graduate student would help oversee classroom and lab activities associated with several classes in the unmanned aircraft systems (drone) area. This additional help is often needed to provide one on one assistance and/or extend “lab hours” beyond the scheduled class time to provide students with extra time or help. As time permits, GA could also hold “office hours” or be used for grading. The ideal applicant will have some experience with the safe and legal operation of Unmanned Aircraft Systems. Additionally, knowledge of electronics, mechanical systems, aerodynamics, and remote sensing would be advantageous