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<tr>
<td>Job Title</td>
<td>Structural Engineer 3</td>
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<td>Job Code</td>
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<td>Tracking Code</td>
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**Generic Scope**
- Entry-level professional with limited prior experience; learns to use professional concepts to resolve problems of limited scope and complexity; works on assignments that are initially routine in nature, requiring limited judgment and decision making.

**Custom Scope**
- Uses skills as a seasoned, experienced engineering professional to operate independently in a professional specialized engineering phase of major construction projects, performs design engineering work for projects of limited scope, and / or improves design of physical plant engineering systems. Demonstrates good judgment in selecting methods and techniques for obtaining solutions.

**Key Resp 01**
- Functions as project engineer (civil, electrical or mechanical), for a major construction project, including new construction or major alterations.

- Uses advanced engineering concepts and campus objectives to plan, organize, and perform the work of a professional engineering staff engaged in the design and execution of mid-level to major construction projects, and improving the design of physical plant engineering systems. Regularly works on highly complex issues where analysis of situations or data requires an in-depth evaluation of variable factors. Exercises judgment in selecting methods, techniques and evaluation criteria for obtaining results.

- Works with Campus administration to plan, organize, supervise and / or perform the work of a professional engineering staff engaged in...
### Job Family
Engineering

### Job Category
Professional

### Job Function
Structural Engineering

### Job Summary
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<td>Serves as engineering liaison to coordinate communications between chief architects, chief engineers and engineering staff members.</td>
<td>Represents the officer to whom they are responsible at meetings and conferences involving Campus, University, state and federal levels of authority in matters relating to engineering design considerations and financial requirements.</td>
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<tr>
<td>Key Resp 02</td>
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<td></td>
<td>Coordinates all or most segments of a construction project, from inception to completion.</td>
<td>Carries major responsibility for Campus construction projects and programs in relationships with chief architects, chief engineers, contractors and Campus committees and staff members, as a senior assistant to the Principal Engineer or administrative officer in charge.</td>
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<tr>
<td>Key Resp 03</td>
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<td></td>
<td>Functions as design engineer (civil, electrical or mechanical), for projects of limited scope undertaken by Campus staff, such as small buildings and structures, minor alterations to large buildings, utility, drainage and road systems.</td>
<td>Senior assistant to the chief engineer in functions such as reviewing Campus building programs, projects and presentations, and provides staff advice.</td>
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<tr>
<td>Key Resp 04</td>
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<td></td>
<td>Provides professional engineering information and advice to committees of current or prospective occupants in determining building needs and priorities, for projects of limited scope.</td>
<td>Initiates and designs studies and reports with respect to new and revised concepts of engineering design and construction, for possible Campus application.</td>
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<tr>
<td>Key Resp 05</td>
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<td></td>
<td>Reviews engineering design development and construction documents to ensure compliance with the specified programs and policies of the Campus.</td>
<td>Reports include approaches, trends, sources and uses.</td>
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<tr>
<td>Key Resp 06</td>
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<td>Functions as physical plant engineer, concentrating in some particular aspect of the physical planning and construction program or the physical</td>
<td>Oversees or performs the review of engineering design development and construction documents to ensure</td>
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<td>plant operation and maintenance program, where the level of difficulty and volume of work requires professional engineering skills and knowledge.</td>
<td>compliance with the specified programs and policies of the Campus.</td>
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**Key Resp 08**

- Provides analysis to improve the design, operation and maintenance features of electrical, mechanical and/or utility systems in a physical plant.
- Coordinates the services of commissioned engineers, contractors and inspectors in the solution of problems arising during construction.

**Key Resp 09**

- Provides direction and guidance to lower level Engineers.
- Serves as technical specialist and advisor on design, construction, operation and maintenance of electrical, mechanical, and utility systems.

**Key Resp 10**

- Implements related business processes.
- May lead a team of engineering professionals.

**Key Resp 11**

**Key Resp 12**

**Key Resp 13**

**Key Resp 14**

**Key Resp 15**

**Education 1**

- Bachelor's degree in related area and/or equivalent experience/training.
- Bachelor's degree in related area and/or equivalent experience/training.

**Education 2**

**Education 3**

**Education 4**

**License 1**

- Professional engineering license required.
- Professional engineering license required.

**License 2**

**License 3**

**License 4**

**Cert 1**

**Cert 2**

**Cert 3**
**Job Family** | Engineering  
---|---  
**Job Function** | Structural Engineering  
**Category** | Professional  
---|---  
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---|---  
**Job Level** | Entry  
---|---  
**Cert 4** |  
---|---  
**Spec Cond 1** |  
---|---  
**Spec Cond 2** |  
---|---  
**Spec Cond 3** |  
---|---  
**Spec Cond 4** |  
---|---  
**KSA 01** | Thorough knowledge associated with independently performing the full range of engineering professional work. Advanced knowledge associated with the planning, design, and construction of engineering systems.  
---|---  
**KSA 02** | Thorough knowledge necessary to apply principles, practices and procedures in the completion of assignments. Ability to work in a highly collaborative manner; readily assess complex challenges and barriers and recommend effective resolutions.  
---|---  
**KSA 03** | Strong project management skills needed to ensure high quality and timely completion of design and construction projects. Demonstrated ability to lead, motivate and influence others.  
---|---  
**KSA 04** | Ability to work in a collaborative manner; identify challenges and barriers and recommend resolutions. Advanced problem solving abilities to apply principles, practices and procedures within discipline to resolve complex issues.  
---|---  
**KSA 05** | Demonstrated organizational and decision-making abilities to manage competing priorities. Advanced project management skills needed to assume responsibility for both high quality and timely accomplishment of major design and construction projects.  
---|---  
**KSA 06** | Effective written and verbal communication and presentation skills. Advanced communication skills, both written and verbal, to convey complex information in a clear and concise manner.  
---|---  
**KSA 07** | Ability to lead and influence others. Advanced interpersonal and presentation skills.  
---|---  
**KSA 08** |  
---|---  
**KSA 09** |  
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**KSA 10** |  
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<td>KSA 15</td>
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**Environment**

- Construction sites, physical plant operations, office
- Construction sites, physical plant operations, office

**Career Path 1**

- Structural Engineer 4
- Career Path open

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