

Advancing San Diego- Engineering

Applications Open May 8 –June 1 for July selections

Engineering Working Group



Technical Skills Requirements

Technical skills requirements, Entry-level engineers & interns

Internship:
5 technical skills req.

Entry-level:
13 technical skills req.

Hardware Design	Entry Level	Internship
Circuit design, schematics, PCBs	Required	Preferred
Computer aided design	Required	Required
Software Design		
Interactive computing environments	Required	Required
Programming language proficiency	Required	Preferred
Algorithm development & implementation	Preferred	Preferred
Systems Engineering		
Modeling and simulation	Required	Required
Embedded systems	Required	Required
Networks & communication fundamentals	Required	Preferred
Model based systems engineering	Required	Preferred
Integration processes	Required	Preferred
Automation	Required	Preferred
Risk analysis	Preferred	Preferred
Data security	Preferred	Preferred
Test and Analysis		
Data analysis	Required	Required
Test equipment & processes	Required	Preferred
Project Management	Required	Preferred

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Employability Skills Requirement

Employability skills requirements, Entry-level engineers & interns

Internship:
3 non-technical skills req.

Entry-level:
4 non-technical skills req.

Employability Skills	Entry Level	Internship
Communication (written & verbal, technical & professional)	Required	Required
Adaptability & Troubleshooting	Required	Required
Teamwork (esp. cross-disciplinary)	Required	Required
Leadership	Required	Preferred