

PLAYER PROFILE



RUBY

ASSOCIATE
PROFESSOR OF PHYSICS
AND ENGINEERING

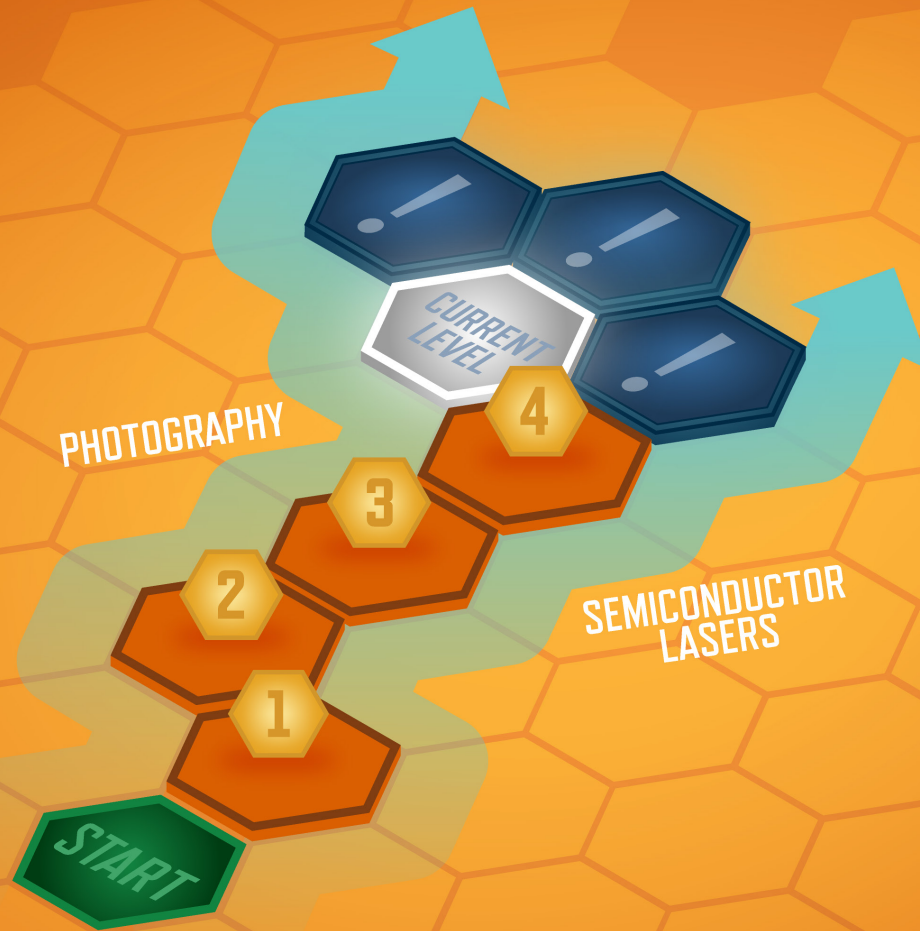
INTERESTS

PHOTOGRAPHY

- ▶ Attention to Detail
- ▶ Communication
- ▶ Time Management
- ▶ Creativity
- ▶ Problem-Solving
- ▶ Adaptability
- ▶ Flexibility
- ▶ Persistence

SEMICONDUCTOR LASERS

- ▶ Abstract Reasoning
- ▶ Critical Thinking
- ▶ Photonics
- ▶ Manufacturing Processes
- ▶ Continuous Learning
- ▶ Inventiveness
- ▶ Innovation
- ▶ Systems Thinking



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HIGH SCHOOL EXPERIENCE:
LASER TECHNOLOGIES

SKILL GAINED:

- +1 Creative Inquiry
- +1 Optoelectronics
- +1 Equipment Calibration

2

EDUCATION:
ELECTRICAL ENGINEERING

SKILL GAINED:

- +1 Circuit Design
- +1 Analytical Thinking
- +1 Technical Documentation

3

JOB:
POSTDOC RESEARCH
ASSOCIATE

SKILL GAINED:

- +1 Experiment Design
- +1 Data Analysis
- +1 Project Management

4

JOB:
PROFESSOR

SKILL GAINED:

- +1 Teaching
- +1 Mentoring
- +1 Curriculum Development



CURRENT JOB OPENINGS

210



PROJECTED 5-YEAR DEMAND

1,050



NATIONAL AVERAGE SALARY

\$67,361



SKILLS GAINED

- +1 Leadership
- +1 Communication
- +1 Teamwork
- +1 Personnel management
- +1 Organization
- +1 Interpersonal
- +1 Problem solving
- +1 Project management
- +1 Recruitment
- +1 Professional development
- +1 Budget management
- +1 Mentoring
- +1 Administrative
- +1 Networking
- +1 Curriculum design
- +1 Curriculum assessment
- +1 Presentation

SCAN FOR MORE
MODERN MAKERS
INFO!



CAREER PATHWAYS

ALTERNATE CAREERS FOR:

ASSOCIATE PROFESSOR OF PHYSICS AND ENGINEERING

OPTICAL ENGINEER



CURRENT JOB OPENINGS

162



PROJECTED 5-YEAR DEMAND

815



NATIONAL AVERAGE SALARY

\$126,595



SKILLS GAINED

- ▶ Design Software
- ▶ Data Analysis
- ▶ Optical Components
- ▶ Prototyping
- ▶ Infrared Light
- ▶ Mechanical Design

RESEARCH SCIENTIST



CURRENT JOB OPENINGS

318



PROJECTED 5-YEAR DEMAND

1,680



NATIONAL AVERAGE SALARY

\$160,054



SKILLS GAINED

- ▶ Experiment Design
- ▶ Advanced Mathematics
- ▶ Scientific Writing and Publishing
- ▶ Computer Programming
- ▶ Laboratory Techniques
- ▶ Project Management

SCIENTIFIC PROGRAM MANAGER



CURRENT JOB OPENINGS

50



PROJECTED 5-YEAR DEMAND

250



NATIONAL AVERAGE SALARY

\$110,165



SKILLS GAINED

- ▶ Team Leadership
- ▶ Resource Allocation
- ▶ Project Timelines & Budgets
- ▶ Technical Roadmapping
- ▶ Cross-Functional Collaboration
- ▶ Patent & IP Development

* Current Job Openings and Projected 5-Year Demand numbers reflect the total from:

- SOC code 13-1199, Business Operations Specialists
- SOC code 11-9033, Education Administrators, Postsecondary
- SOC code 17-2199, Engineers
- SOC code 15-1221, Computer and Information Research Scientists