

## JOB DESCRIPTION

<b>JOB TITLE: Norman Rostoker Internship at TAE Technologies</b>	<b>EXEMPT/NON-EXEMPT: Non-Exempt</b>
<b>DEPARTMENT: Physics</b>	<b>PRIMARY PROGRAM: C-2W</b>
<b>REPORTS TO (POSITION): TBD</b>	

### Section 1: Job Summary (Purpose of Job) :

TAE Technologies was born at UCI two decade ago as a collaboration between Professor Norman Rostoker and his student Dr. Michl Binderbauer, who is now our CEO. We are leveraging proprietary science and engineering to tackle the world's biggest challenges. Our core mission is to create a new source of clean energy – one that's powered by nature's own processes and produces no harmful byproducts. It's what we call Friendly Fusion. Our groundbreaking work has effected industry-wide advances in accelerator and plasma physics, and acted as a catalyst for adjacent innovations based on our results. With 20 years of focused research, TAE Technologies is on a purposeful path to commercial fusion energy and pioneering sustainable solutions for a better tomorrow.

We have an opening at our Foothill Ranch, CA (Orange County) facility for the first annual **Norman Rostoker Internship**, offered in partnership with the UCI Department of Physics & Astronomy. This internship is for senior undergraduate students completing their B.S. degrees in Physics during the 2018-2019 academic year. The internship will start in late June 2019 and its duration is negotiable depending on the plans of the individual selected. Students intending to enter the workforce after graduation, rather than immediately starting graduate school in fall 2019, are specifically encouraged to apply.

### Section 2: Essential Duties and Responsibilities:

#### **Essential Duties:**

**Assist TAE staff scientists with their work in one or more of the following areas:**

- **Plasma Diagnostics**
  - **Lasers and Optics**
  - **Electronics and Magnetics**
- **Data Science and Analysis**
- **Particle Accelerators**
- **Experimental Operations**
- **Plasma Simulation and Computational Science**

### Section 3: Education and/or Certification:

Required: B.S. degree in Physics from UCI.

### Section 4: Required Job Knowledge, Skills, and Abilities:

- Thorough understanding of physics, particularly electricity and magnetism. Study of plasma and/or accelerator physics a plus.
- Excellent oral and written communication skills.
- Strong teamwork and organizational skills.

### **Technical Experience (Equipment, Tools, etc.):**

- Experience working in a laboratory environment preferred.

**Project Experience:**

Experience with large-scale scientific projects a plus.

**Software Knowledge and Skills Required:**

MS Office Suite

Experience with coding and data analysis in languages like Python, MATLAB, IDL, R, etc.

**Section 5: Other Desirable Job Knowledge, Skills and Abilities:**

**Section 6: Workplace Conditions:**

Are there any unusual workplace or environmental conditions associated with this particular position?

(Examples: exposure to fumes, dust, dirt, heat/cold, noise, vibration, wetness/humidity, other)

No

**Section 7: Unusual Physical Requirements:**

Depending on the technical area assigned, this internship may require:

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Climbing                  | <input type="checkbox"/> Operating heavy equipment                                  |
| <input type="checkbox"/> Driving                              | <input type="checkbox"/> Lifting/carrying heavy items – Up to (how many) _____ lbs. |
| <input checked="" type="checkbox"/> Stooping/Bending          | <input type="checkbox"/> Pushing/pulling/dragging heavy items                       |
| <input checked="" type="checkbox"/> Balancing in high places  | <input checked="" type="checkbox"/> Standing for long periods of time               |
| <input checked="" type="checkbox"/> Working in cramped places | <input type="checkbox"/> Working outside or underground                             |

Approved:

Supervisor Signature: \_\_\_\_\_ Name: \_\_\_\_\_

HR Signature: \_\_\_\_\_ Name: \_\_\_\_\_