



## PSU STEM Education and Equity Institute

### Supporting, Teaching and Engaging Minds in STEM

The PSU STEM Education and Equity Institute is committed to creating and sustaining a student-centered, welcoming STEM environment dedicated to authentic excellence, that promotes student success, engagement and well-being for ALL students.

#### Working to:

- Increase the number and diversity of **STEM Graduates** from PSU
- Provide innovative and inclusive **STEM Education** within PSU
- Lead transformational change in P-20 in STEM education through **teacher** preparation and professional development
- Be a catalyst and **model for national transformation**, utilizing the collective impact of an entire STEM Education Ecosystem

#### Opportunities and Needs:

1. STEM Institute: a **cross-institutional entity** well-placed to align opportunities and capabilities
2. **Proximity to high growth** industrial/academic partners in STEM
3. Collaborations to meet the **demand for an increasingly diverse workforce** in STEM

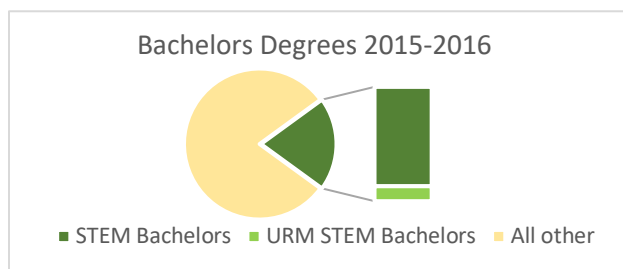


Figure 1: The highly sought after URM STEM graduates are a small portion of our overall graduates.

#### Activities of Institute:

- Recommend and advocate for positive/successful **STEM student experience**
- Dissemination of novel, innovative, and **effective STEM teaching practices** and assessment approaches. Participate in national conversations on STEM Transformation.
- Development of institutional grant proposals** to develop and transform STEM education and programming to improve student success and holistic experience, and consulting on grant broader impact programs and education plans.
- Analyze **STEM Student experience** – collect, analyze data on our students and programs.
- Articulate and support excellent preparation of STEM teachers. **Recruit STEM teacher candidates**, with a focus on recruitment of underrepresented groups.
- In collaboration with the Regional STEM Hubs and other STEM program providers develop projects and grants to support exemplary STEM teaching in schools and community colleges, engage underserved populations in STEM activities, and establish **robust pathways into STEM majors** at the university.
- Enhancement of partnerships between DBERs, research capacity and STEM Ecosystem.

