Universities of Distinction: UCF Power Up

October 3, 2019

Florida's Economic Future is in STEM

5% ➡ 50%

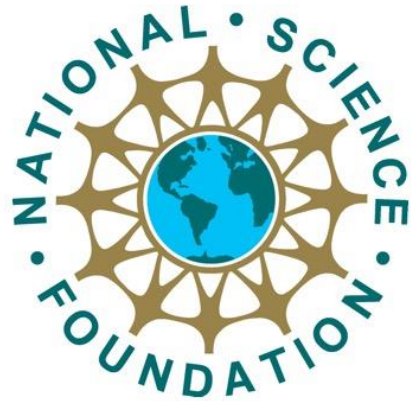Only **5%** of U.S. workers are employed in fields related to **science and engineering**.

Yet they are responsible for more than **50 percent of our sustained economic expansion**.

U.S. Department of Labor 2012 data quoted in analysis by: Adkins, Rodney. "America Desperately Needs More STEM Students." Forbes. July 12, 2012.

UCF

Florida Needs High Quality STEM Talent

1 STEM jobs are expected to grow by **8.8%** by 2028 (compared to **5%** for non-STEM jobs). *Bureau of Labor Statistics "Employment in STEM occupations, 2018 and projected 2028"*

2 These STEM jobs are expected to have a median wage of **$84,000** (compared to $37,000 for non-STEM jobs). *Bureau of Labor Statistics "Employment in STEM occupations, 2018 and projected 2028"*

3 This past June, Governor Ron DeSantis announced that the Orlando area continues to lead the state in job growth with **the second-highest state metro area in demand for high-skill, high-wage STEM occupations.** *Governor's Office News Release: "Governor Ron DeSantis Announces Orlando Area Continues to Lead in Job Growth for 52 Consecutive Months*

4 "Each month, an average of **80,000 high-skilled and 30,000 middle-skilled [STEM] jobs are left unfilled**" in Florida *Florida Council of 100's Project Sunrise report*

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UCF Engineering & Computer Science: Positioned to Fulfill Industry Demand

UCF engineering research expenditures ranked **33rd nationally** for public universities and **2nd in the SUS**.

UCF computer science research expenditures ranked **11th nationally** for public universities, and **1st in the SUS**.

Based on a National Science Foundation's 2017 Higher Education R&D survey

SCHOOL-RECORD
$192.1
MILLION
RESEARCH GRANTS
2019

UCF was awarded a school-record **$192.1 million** in new grants during 2019.

Engineering and related disciplines represented **$76.2 million** (40%) of overall grant funding.

UCF Engineering & Computer Science: A Pathway to Distinction

In the 2020 *U.S. News and World Report* rankings, UCF's engineering undergraduate and graduate program **ranked 49th and 45th respectively among public institutions** and **2nd in the SUS.** *Every* UCF engineering graduate program ranked in the **Top 50 among public institutions.**

UCF's College of Engineering and Computer Science ranked **51st among public institutions** for Computer Science and **2nd in the SUS**.

2020 U.S. News and World Report Graduate Public Ranking

Optics	# 5	Materials Engineering	# 37
Industrial Engineering	# 26	Mechanical Engineering	# 40
Electrical Engineering	# 30	Environmental Engineering	# 40
Computer Engineering	# 30	Civil Engineering	# 45

UCF Power Up: Accelerating Excellence and Impact

Power the UCF College of Engineering and Computer Science into the **Top 40** of the *U.S. News and World Report* undergraduate and graduate public university rankings by 2025, with an aspirational goal of the **Top 25** by 2035.

| **Improve student affordability and success** | → | **Enhance the talent pipeline for a 21st-century economy** | → | **Grow research and economic prosperity** |

Thank You