Hartnell College Summer STEM Internship Program and Symposium
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November 2014
STEMtech Conference
Denver, CO
THE HARTNELL COMMUNITY COLLEGE DISTRICT


www.hartnell.edu

THE HARTNELL COMMUNITY COLLEGE DISTRICT – STUDENT PROFILE

• 15,000 students annually (unduplicated headcount)
• 85% receive financial aid
• 67% of students are Latino/Hispanic
• 90% unprepared for college level math
• 85% unprepared for college level English
• Less than 10% of adults in District have a bachelor’s degree or higher
• 39% of adults over 25 years old do not have a high school diploma
• Annual family income in East Salinas - $11,000
Against this backdrop of enormous socio-economic challenge and education disadvantage…

- World class STEM programs and world class students
- CSIT-in-3 Program
  - Only one of its kind in the U.S.
  - 3 year bachelor’s degree in computer science
  - Cohort program
  - 85% Latino/Hispanic students
  - 45% Latino/Hispanic female students


Link to College Strategic Priorities
STEM INTERNSHIPS LINK TO STRATEGIC PLAN

- Strategic Priority 1 - Student Access
- Strategic Priority 2 - Student Success
- Strategic Priority 3 - Employee Diversity and Development
- Strategic Priority 4 - Effective Utilization of Resources
- Strategic Priority 5 - Innovation and Relevance for Educational Programs and Services
- Strategic Priority 6 - Partnerships with Industry, Business, Agencies, and Education

STEM INTERNSHIP PROGRAM COMPONENTS

- Fall Semester
- Spring Semester
- Summer Semester
Fall Semester

- Declare a STEM major
- Prepare an education plan with counselor
- Attend informational workshop.
- Complete internship interest form on Internship Program website
- Upload current resume on Internship Program Website
- Enroll in Science 124 “STEM Internship Preparation Course” for Spring Semester

Spring Semester

- Attend Science 124 “STEM Internship Preparation Course”
  - Example Topics: Abstract Writing, Research Posters, Data Analysis, Lab Skills, Programming, Responsible Research
- Internship Placements
- Mentor Orientation and Handbook
- Write Project Management Plan to be reviewed and approved by mentor
Summer Semester

- Internship begins, 8-10 weeks, Monday – Friday, full-time
- Site visits and lab tours by program activity directors throughout summer
- Mid-point retreat and first stipend
- Abstract and poster preparation
- PowerPoint preparation for select oral presenters
- Symposium and Recognition Ceremony at Hartnell and second stipend
- Program staff and partners debriefing
- Apply to attend a National STEM Conference
- Determine suitable students and projects for year round model

Executing a Culminating Research Symposium
Poster and Oral Presentations
Parent and Family Engagement
Mentors and Partners
Funders
President and Board
Partner Award
Community Leaders
Open House for Public

Resources Necessary to Develop the Internship Program
Support at the highest level of the institution – CEO and Board
Excellent staff with passion and dedication toward students
Staff with the ability to build robust partnerships with multiple stakeholders and institutions
Braided funding = public and private funding
Ability to maintain and steward relationships with partners

Developing Partnerships with Agencies, Organizations, and Educational Institutions
Cultivate and maintain relationships with partner institutions

Develop partnership agreements

Relationships are reciprocal
Great preparation of students = happy mentors!

Keep in touch regarding student’s success and needs

Recognize partners for their contribution

Invite to special events and recognize publications

Report student success back to mentors

Look for co-funding opportunities to support both institutions

Create opportunities for Presidents of Institutions to develop relationships

“No one cares what you know, until they know that you care”

- Benjamin Franklin
Naval Postgraduate School

The mission of the Naval Postgraduate School is to provide relevant and unique advanced education and research programs to increase the combat effectiveness of commissioned officers of the Naval Service to enhance the security of the United States. In support of the foregoing, and to sustain academic excellence, NPS and the DON foster and encourage a program of relevant and meritorious research which both supports the needs of Navy and Department of Defense while building the intellectual capital of Naval Postgraduate School faculty.

What Hartnell College Brings

Award-winning STEM program
Science 124 Internship Prep Course
Familiarity with students’ skills and goals
Ready-made cohort
Accountable, eager and talented STEM students
What Success Looks Like

- 126 Interns since 2007
- 3 former interns now Scholarship for Service Scholars, earning MS
- 1 former intern earned MS from NPS
- 1 former intern earned BS from NPS
- Co-authors on groundbreaking research
- Award-winning presentations
GROWTH OF INTERNSHIPS

TOTAL STEM INTERNSHIPS

OUTCOMES FOR STEM INTERNS

DEGREES Earned by STEM Interns

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<th>2008</th>
<th>2009</th>
<th>2010</th>
<th>2011</th>
<th>2012</th>
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<td>14%</td>
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*Persistence and Attainment of 2003–04 Beginning Postsecondary Students: After 6 Years
National Center for Education Statistics

2013 SYMPOSIUM VIDEO

CLICK ON ANY IMAGE TO ACTIVATE VIDEO

Seventh Annual

Summer STEM Internship Symposium

Thank You

Questions?

https://sites.google.com/a/hartnell.edu/hartnell-college-internship-program/home