UConn-TIP Bioscience, Entrepreneurship & STEM Intern Program

Caroline Dealy, PhD
Depts. of Reconstructive Sciences & Orthopedic Surgery
Center for Regenerative Medicine and Skeletal Development
UConn Health, Farmington, CT

founder and director, UConn-TIP Intern Program
director, Skeletal Biology & Regeneration graduate PhD program
What is the UConn-TIP Bioscience, Entrepreneurship & STEM Intern Program?

An intern program which pairs UConn students with UConn startup technology companies for mentored research experiences

- Real-world research experience in a biotechnology setting
- Promote interest in biotechnology careers
- Collaboration between academia and industry
- Align with State initiatives in bioscience, innovation and S.T.E.M. fields
What is TIP?

TIP is the UConn Technology Incubation Program

- TIP "incubates" new biotech start-up companies
- TIP companies have a technology link or collaboration with UConn – many are faculty startups
- >20 TIP companies located at TIP facilities at 3 different UConn campuses
- New building at Farmington TIP will add 30 more companies
What kind of research could I do as a UConn-TIP intern?

- TIP companies are pursuing R&D in STEM areas including biotechnology, engineering, chemistry, and computer sciences:
  - Synthetic heart valves
  - Stem cells and tissue engineering
  - Medical devices
  - Cancer gene profiling
  - Vaccine development
  - Cloud computer applications
  - Materials for machine coatings

As a TIP intern, you become part of your host startup company’s R&D team!
Who is eligible?

- UConn undergraduate students
- Recent UConn grads (Dec 2015 or May 2016)
- UConn Masters’ students
- Medical & Dental students
- International students welcome
- Diversity students welcome

All majors welcome

Engineering & Bioengineering
- Biology & Genetics
- Computer Science
- Business
- Communications
Summer Program Details

2016 summer program dates: likely May 30 to Aug 5

- Locations: Storrs, Farmington or Avery Point
  - you can choose your most convenient location

- Your host TIP company provides:
  - a dedicated mentor
  - space and supplies

- You provide:
  - energy, engagement, effort and enthusiasm
  - 40 hrs/week full time research for 10 weeks

- Your stipend:
  $3,500 *

  Training in Lab Safety and Responsible Conduct in Research are provided by the program
Program Academic Enrichments

- Weekly seminars and workshops
  - technology and entrepreneurship topics
  - Various locations and times
  - over 50 options – you choose what you want to go to

- Research presentations
  Platform talk at UConn-TIP
  Intern Research Day (July 29)
  Poster at UConn Frontiers in Undergraduate Research (October)
UConn-TIP Intern Research Day

UCONN-TIP Bioscience & STEM
Summer Research Intern Program
presents:

TIP Intern RESEARCH DAY

Thursday July 25
9-2 pm at Avery Point TIP*

Join us for a day to celebrate innovation, education and biotechnology entrepreneurship in a beautiful seaside setting

Featuring
- Research presentations by UCONN-TIP interns
- Food, networking and tours of Avery Point TIP

Special Guest Keynote Speaker: Susan Froshauer, PhD
CEO of Connecticut United for Research Excellence (CURE)

All participants in the UCONN-TIP Intern Program are invited
(interns, host TIP company mentors and members, and sponsors)
Please RSVP to Natalie D’Oyen natalie.do yen@uconn.edu by July 22

Support for this event provided by:
UConn’s Technology Incubator Program

* 1084 Shennecossett Road, Groton CT, http://www.averypoint.uconn.edu/

Keynote speaker: Dr. Susan Froshauer, CEO
How do I apply?

- The program will be announced **February 15** via:
  - UConn Office of Undergraduate Research emails and website
  - UConn Career Services Intern website
  - Internal emails and postings within the School of Engineering

- Application link is contained within the announcement
  - Brief online form
  - Resume
  - GPA, SAT/ACT Scores, or GRE scores
  - Research Experience
  - Relevant background and coursework
  - Interest statement

- Applications accepted for 3 weeks (until mid-March)
Highly competitive Program:

- 10-15 intern placements expected in summer 2016
- Each TIP Company interviews and chooses their own interns
Some comments from past interns...

“great learning experience to see real world applications of theory learned in the classroom”

“couldn’t have asked for a better mentor”

“the presentation definitely helped me to organize and think critically about my results”

“wonderful experience and I am very grateful for the opportunity”
UConn-TIP Intern Program

in the news:

2012 UConn news story:
“New Biotechnology Intern Program Offers Students Real-World Lab Experience”
http://today.uconn.edu/blog/2012/10/new-biotechnology-intern-program-offers-students-real-world-lab-experience/

2013 profile in UConn’s Undergraduate Admissions “Viewbook”

2013 UConn news story:
“Students Help Boost Local Labs and Economy”

2015 news story:  “Interns Sample Tech World”
2016 Program Timeline

- **Feb 15**: Student applications open
- **Mid-March**: Student applications close
- **April**: Student interviews with potential TIP company hosts
- **Early May**: Intern selection complete
- **Tuesday May 31**: Tentative first day of the UConn-TIP summer intern program
- **Wed July 27**: Tentative date for UConn-TIP Intern Research Day
- **Friday Aug 5**: Tentative last day of summer program
Interns who have completed the summer program are eligible to continue to do research with their host company over the school year.

Earn academic credit via Independent Study arrangements.

*** For highly committed and motivated students ***

Academic requirements (research paper, presentations)
12-18 hours per week, 2-3 credits
By arrangement - learning contract and permission is required.

Attn BME and Engineering Majors:
Research for Credit can incorporate a Senior Design Project or Honors Thesis.
We gratefully acknowledge the support of the following program sponsors, without which this program would not be possible:

- UConn School of Engineering
- Connecticut Center for Entrepreneurship & Innovation
- UConn School of Business
- UConn School of Pharmacy
- UConn College of Agriculture, Health & Natural Resources
- UConn College of Liberal Arts & Sciences
- UConn Schools of Medicine & Dental Medicine
- McNair Scholars Program with the Center for Academic Programs
- UConn Health Careers Opportunity Program
- UConn Office of Undergraduate Research
- UConn Center for Career Development
- UConn-Technology Incubator Program (TIP)
Contact: Dr. Caroline Dealy, PhD
UConn-TIP Intern Program founder & director
dealy@.uchc.edu
(860) 679-1193

Program website: http://ugradresearch.uconn.edu/uconn-tip/
Welcome to the UConn-TIP Bioscience, Entrepreneurship & STEM Intern Program!