



Science and Technology Enrichment Program (STEP) Orientation at UC Merced

*Led by the NSF-CREST Center for Cellular and Biomolecular Machines (CCBM)
in Collaboration with the STEM Resource Center and UC Merced Faculty, Staff and Students*
University of California, Merced
June 11-15, 2018, Student Services Building (SSB) 170

All 2018 STEP applicants and ACS SEED participants invited to attend the June 11-15 orientation.

STEP Program Information

Orientation + Lab Experience + Workshops + CCBM Open House Poster Session = STEP

Monday, June 11

Paperwork Session for STEP Parents and Participants, with Nora Cole, 11:00 am-12:30 pm (if not already completed)
(STEP only)

Carrie Kouadio/Jose Zamora: Speed Networking Session, 11:00 am-12:00 pm

Group Lunch, 12:15-1:00 pm, Pizza lunch for STEP and ACS SEED participants and STEP mentors: sponsored by the
Center for Career and Professional Advancement at UC Merced

Carrie Kouadio and Nora Cole: NSF-CREST Center for Cellular and Biomolecular Machines (CCBM) and Science and
Technology Enrichment Program (STEP) Overview (with CCBM posters), 1:00-1:45 pm

Helia Samani: Previous STEP Participant, 1:45-2:15 pm

Deb Motton: Research Compliance/Integrity, 2:15-4:15 pm

Ayesha Boyce: External Evaluation/Program Evaluation Overview, 4:15-4:30 pm

Armando Quintero: Sierra Nevada Research Institute, 4:30-5:00 pm

Tuesday, June 12

Jeff Weekley: WAVE Tour, 8:00-9:00 am (GROUP A, B) (after sign-in--meet at COB2 2nd fl. lobby)

Campus Tour, 8:00-9:00 am (GROUP C, D) (meet at SSB 170)

Karen Smith: Lab Safety Fundamentals, 9:00-11:00 am

Bill Collier: Fire Safety Training, 11:00 am-1:00 pm

Meghana Medini: Previous STEP Participant/Lunch Seminar, 1:00-1:30 pm

Break, 1:30-2:00 pm

Daniel Wong: Research Ethics, 2:00-3:00 pm (via videoconference)

Library Tour, 3:00-4:00 pm (GROUP A, B)

Jeff Weekley, WAVE Tour, 3:00-4:00 pm (GROUP C, D) (meet at COB2 2nd fl. lobby)

Joel Heisler: Research Overview/Keeping a Lab Notebook, 4:15-5:00 pm

Wednesday, June 13

Anand Subramaniam Lab: Microscopy Activities (STEP only), 8:00-11:00 am

Break/Lunch, 10:45-11:45 pm

Science-focused TED talks and discussions, 12:00-2:00 pm (History of Science/Nature of Science, CRISPR-Cas9,
Sleep/Neuroscience)

Anand Subramaniam Lab: Microscopy Activities (STEP only), 12:00-2:00 pm

David Gravano & Miguel Manansala: Wet-lab Demonstration: Flow Cytometry and Cell Sorting + Stem Cell

Instrumentation Foundry Tour (STEP ONLY) 2:00-3:30 pm (3 rotations total/30 min each, 1 rotation is TBD)

Donna Jaramillo-Fellin: Physics/Chemistry Lab, 2:00-3:30 pm (ACS SEED/STEP)

Melissa Goodlad: On Research, 3:45-4:15 pm

Michael Scheibner: Quantum Science & Technology: A Light Matter, 4:15-5:00 pm

Thursday, June 14

Chris Alarcon, On Internships in College, Part 1, 8:00-8:30 am
Mo Kolster: Merced Grassland/Vernal Pools, 8:30-10:45 am (meet at Reserve gate, Veronica Adrover pictures)
Mayya Tokman: Applied Math and Careers in Math, 11:00-11:40 am
Angelo Kyrilov: Computer Science and Coding, 11:40 am-12:15 pm
Jorge Arroyo: Preparing for College/Lunch Seminar, 12:15-1:00 pm
Donna Jaramillo-Fellin: Physics/Chemistry Lab, 1:00-2:15 pm (1/2 of STEP)
Campus Tour, 1:00-2:00 pm (ACS SEED, Group A/B)
Hannah Ewing: UC Merced Highlights, 2:15-2:45 pm
Shawn Newsam: Research Overview/Computer Vision, 2:45-3:30 pm
Lynn Reimer: Research 101, 3:30-4:30 pm
Mourad Sadqi: Discussion, 4:30-5:00 pm

Friday, June 15

Chris Alarcon, On Internships in College, Part 2, 8:00-8:30 am
James Brugger: Facilities Management/Central Plant/Solar Arrays, 8:30-9:45 am (meet at SE 2 entrance after sign-in)
Carrie Kouadio and Nora Cole: Discussion and Reflections: How Would You Redesign STEP?, 9:45-10:05 am
Microscopy Assessments/Break, 10:05-11:00 am
Teri Campos/John Newton: Setting Yourself Up for Success in College and Overcoming Challenges, 11:00 am-12:00 pm
Petia Gueorguieva: STEM Center/College Resources + College Life/Lunch Seminar, 12:00-12:45 pm
Group Photo, 12:45 pm
Angelo Kyrilov: Q & A, 12:50-1:00 pm
Suhani Nagpal: Computation Hands-on Activity, 1:00-2:30 pm (SSM 154)
David Quint: CCBM Research Overview, 2:45-3:30 pm
Break/Concluding Session/Carrie Kouadio and Nora Cole: Discussion and Reflections, 3:30-5:00 pm

Summer Workshops: Open to All Participants and Merced Area Community

Andy LiWang, to be scheduled
Kara McCloskey, August 28, 7:00-8:00 pm (UC Merced campus, room TBD)
Aleksandr Noy, to be scheduled
Armando Quintero, to be scheduled
Leroy Westerling, July 31, 7:00-8:00 pm (UC Merced campus, room TBD)
To be Scheduled (Webinar): Mareshia Donald (Novartis Institutes for BioMedical Research): On Pathways To and Through STEM

Campus map

SSB: Student Services Building
COB 2: Classroom and Office Building 2
SE 1: Science and Engineering 1
SE 2: Science and Engineering 2
Le Grand Parking Lot

CCBM Executive Committee:

Victor Muñoz, Co-director and Professor of Bioengineering
Ajay Gopinathan, Co-director and Professor of Physics
Sayantani Ghosh, Associate Professor of Physics
Kara McCloskey, Associate Professor of Bioengineering

CCBM Project Scientists:

David Quint
Mourad Sadqi

External Evaluator:

Ayesha Boyce, The University of North Carolina at Greensboro

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