

Not really *alternative* careers - these are careers!

Jeff Schinske

Bio instructor at Foothill college, dept chair, coordinator for anatomy series(?), involved with CBE LSE Dad, musician, students have opportunity to excel – sense of belonging and having opportunities as much as possible in the given environment

Training in biology

Partner with K-12 (previous NSF grant) seminars in science education and evidence-based teaching

Currently publishes 3-5 articles/year in CBE-LSE as community college (CC) prof

Underrepresentation of community colleges in bio ed research > policy decisions made on bio ed research > need it to be representative of the students who are there > interventions that are not being investigated
Scientist spotlights intervention – development and implementation

? Day in your job – varies a lot by CC prof, flexibility, early classes (8-2:30), pick up sons, emails/grading/prep from 10pm-1am-ish > following rhythm of own life

? number of classes in a term – 15 contact hours/week and 4h office hours, different for distance learning, can change from quarter to quarter and have some heavy and some light – adjusting for conference schedules etc., also varies by day

? different number classes affect pay – part-time, yes; when you are on contract it is the same amount of pay all the months, 10 month contract with option to teach in the summer; grants that allow for some course release or some affect pay but not teaching hours

? opportunities, postdoc necessary – most recent job announcement from Foothill, also what they are really looking for, diversity inclusion equity and translate this into classroom practices (coming from the heart) experience of marginalization – personal experience or have come to that understanding in some other way, this is what it looks like in my classroom for the students, best practices and how they are implemented, past experience in CC as student or instructor, skepticism when there is no experience with CC (at least one class taught), don't need PhD or postdoc

? managing team and how to develop those skills – lot of the same best practices in managing students, faculty – “Structure matters 21 strategies” – more equitable interactions – dept chair can use these strategies even though they are originally from the classroom, deficit model can apply both to students and faculty, working towards applying strength-based views in both settings, assume good intentions and do what you can to draw out full effort of others

? resume and CV and what if background entirely academic – spirit of collaboration, research on island where you are really dependent on this group, in CC as compared to R1 there is not the community of discipline researchers either, environment really differs from place to place, some experiences can be really isolating, make connections outside of institution, acknowledging when you need to make a shift, collaborations across campus and outside of department, be explicit about how much you want to learn from the others in your department – don't want it to be that you are telling other people how to be teaching, see your class, learn from all of your experience

Holly Menninger

Bell Museum – transformed from traditional natural history museum to bright, open, interactive space with technology

Public facing interactive pieces of the museum eg. planetarium

Continuity and flow btw areas that were previously siloed

citizen science program, previous NC State director of public science – connecting with public audience, partnerships with organizations in the community, get scientists interacting with the public, workshops, broader impacts of grants

Bio PhD about streams affected by humans, originally thought prof at small liberal arts college, lots of challenges

17y cicadas in Washington DC, prep for connecting this event with the public, media interviews – translating science, communicating science from researchers

Science policy

Radio show

? Day in your job – children’s summer camp (bathroom issues), proposal for NASA developing educational material, meetings with staff, quite varied, deal with day to day and planning for future, interviewing job candidates

? opportunities, postdoc necessary – portfolio of experience, demonstrate public engagement activities, work with different/diverse audiences, Postdoc not necessary, building suite of experiences, universities increasingly investing in “bridge” positions to help PIs with broader impacts/community engagement, networking/going to events/connections really important, being in the right place at the right time

? managing team and how to develop those skills – yes (team of 14 people), ability to go for bigger ideas, people are complicated in ways you might not have thought of, difference between inheriting team and building it yourself, difference between working in team/collaboratively and being the lead of that team, can draw from mentoring undergrads/grads etc., but some elements are different, seeking out workshops to develop these skills, eg. how to delegate better, find a mentor in the place you are

? internships and what are you looking for – co-develop hands-on activity to be delivered on museum floor, partnership with Heritage Studies Program who has funding for internships – student who obtained funding this way and brought to the program, discovery day, festivals, rapid growth and transformation right now

? resume and CV and what if background entirely academic – DO NOT send academic CV eg. do not have informal science education/community engagement all the way on page 9, need to see passion for this job, be explicit in the cover letter, make sure you connect yourself with why you are so excited for the position, evidence of incorporating science and research into other projects, equity/inclusion/access/diversity and experience related to this, program management experience – can show how your PhD is an argument for this

Christina Peterson

U of Minnesota, Center for educational innovation

Changes year to year

Teaching – preparing faculty for teaching in higher ed (grad students and postdocs) – pharmacology of the synapse (design this course) workshops, consultations – collaborate with school of med to overhaul curriculum – student well-being and cutting content in terms of contact hours – pedagogical journal club
PhD in pharmacology (not allowed to teach), postdoc in dept of anesthesiology

Concerns of disappointment to others when following own path

? Day to day – real 40h week, writing in the morning, classroom space, coffee meetings to keep up with colleagues across campus, conference prep, reading at home (at least 5 articles/week), reading club in summer

? requirement for scholarship – not required, follow interest

International Forum on Active Learning Classrooms Conference

POD – professional organizational developers(?)

? opportunities, postdoc necessary – currently hiring (link), PhD preferred/ABD/Master’s required, no postdoc

? flexibility inherent or negotiated – 25% set duties and 75% what you want, this came from previous experience with the group, align what you love doing with the strategic priorities > moving to 90% what

you want and 10% set duties by seeing what you want to do and pitching it in a way that aligns so everyone is happy

? resume and CV and what if background entirely academic – students taking faculty development courses discreetly, get through the system/get degree then use as leverage to do what you want

Brian Sato

UC Irvine Teaching Professor – Tenure track with more teaching than traditional research faculty

Outreach, prof development, edu research

Associate dean – faculty development, online learning, classroom learning spaces

Overlap in these positions

Bio PhD then teaching postdoc, bench science with lots of teaching

15% teaching, rest research and admin

? Day to day – coach son's baseball, able to have flexibility to do that, could do only baseline teaching with short week, 1 class/quarter with admin duties, teaching classes that have taught many times before – much less prep time, lots of meetings in the day 4-6h, has grad students and postdocs, reading, analyze data, 8-11pm more work time (this is time that is elective)

? opportunities, postdoc necessary – R1 perspective – looking for PhD in that discipline mostly, but some are open to DBER PhD – looking to centers there may be more opportunities, to be in discipline dept need that discipline PhD

? flexibility inherent or negotiated – even if negotiated it might not really happen, faculty positions in general are flexible but there are some necessary duties

? fostering sense of community with non-ed researchers – can be challenging, making personal connections to have some go-to people, changing over time, PhD and postdoc you need to have supportive mentor – others won't matter so much

Marjee Chmiel

HHMI – private philanthropy – some programs in science education but mostly biomed research

Evaluation plans and strategies – work with lots of people externally

Collecting data for effective philanthropy

Day-to-day > meet with program officers eg. better content media for CC prof teaching Anatomy and Physiology

Film production with informal audience – NOVA, National Geographic

Audience reaction, youth engagement

Jackson hole film festival, visual skills in science storytelling

Smithsonian previously

Invite proposals from scholars who are doing research related to the HHMI priorities

Power that stories have in our lives – science above and beyond > digging into the process of science

? Day to day – Office job with typical 8-6 schedule, work with scientists and writers, fair amount of travel, specifically Chile and presenting at conference in Singapore, analyzing spreadsheets, and also time for interviews/meetings/etc.

? opportunities, postdoc necessary – lots of discipline postdocs, REALLY looking for passion and entrepreneurial people, side hustle to show evidence of that passion, be someone that people want to work with

? managing team and how to develop those skills – slow start, manage volunteers and undergrads, public broadcasting – managing contractors is a way to build evidence, prof dev courses can help if this is

possible, Harvard Business Review – manage up and manage sideways to build sideways – app with management tip of the day
? internships and what are you looking for – looking for 1-2y fellow currently