

New Grads Becoming New SREs

Catalyzing a "Circle of Life" in Ireland

Jennifer Petoff

<u>sre.google</u> • <u>twitter.com/googlesre</u>



Can we bootstrap new grads into new SREs?



What was our starting point?

What was our starting point?



















Applicants







Resume/CV Quality











Resume/CV Quality



Interviews









Resume/CV Quality



Interviews



Bandwidth

















Applicants

- 1. Students aren't aware that Google hires engineers in Ireland
- 2. Students are afraid of the interview process
- 3. Students don't know what SRE is









Applicants

- Students aren't aware that Google hires engineers in Ireland
- 2. Students are afraid of the interview process
- 3. Students don't know what SRE is

Resume/CV Quality

- Students aren't getting practical coding experience outside of the classroom
- 2. Students are not trained on how to write a compelling CV
- 3. Students are difficult to assess 'on paper'







- Students aren't aware that Google hires engineers in Ireland
- 2. Students are afraid of the interview process
- 3. Students don't know what SRE is



Resume/CV Quality

- Students aren't getting practical coding experience outside of the classroom
- Students are not trained on how to write a compelling CV
- 3. Students are difficult to assess 'on paper'





- Students aren't getting practical coding experience outside of the classroom
- 2. Students not talking thru their thought process
- 3. Not enough experience coding 'on the spot'
- 4. Students get nervous













Proposed Solutions









Applicants

Resume/CV Quality

Interviews

Large-scale Open House and Campus Tech Talks

CV Skills Workshop

Algos Workshops and Code Retreats

Support Coding Competitions

Focus on internships



Proposed Solutions









Applicants

Resume/CV Quality

Interviews

Bandwidth

Large-scale Open House and Campus Tech Talks

CV Skills Workshop

Algos Workshops and Code Retreats

Support Coding Competitions

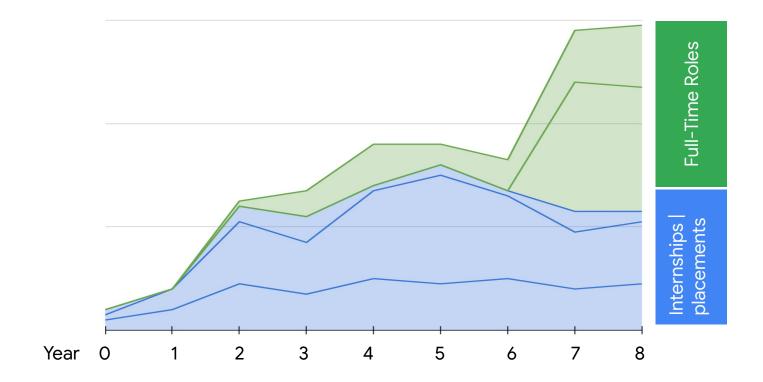
Results will improve if we invest more effort

Focus on internships



How far have we come?

How far have we come?



What we learned (and who we met along the way)

1. Networks & social media are important amplifiers

Dedicated Hashtag

#GoogleTechIE gave students a channel to follow for information about events and placements.

Cultivating Contacts

among faculty and career services at universities and institutes of technology across Ireland helped get the word out.

Connecting on Linkedin

encourage students to connect on Linkedin to forge deeper connections and to drive awareness.

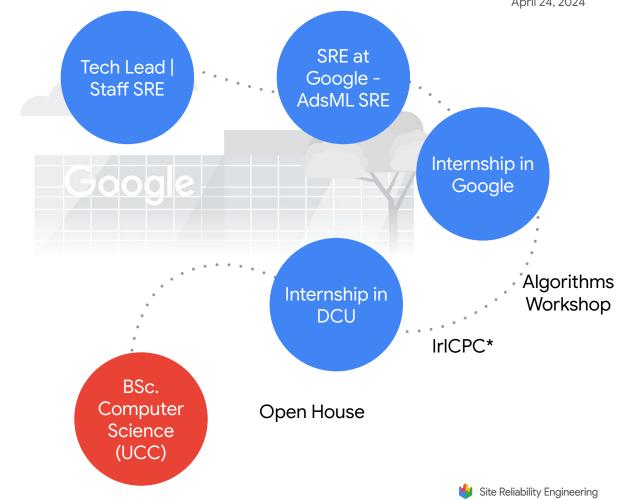
Taking Time to Reply

to inquiries from those who take the time to connect helps build trust and helps students feel supported.





Path to Google: Adam Google Dublin



2. Accept a little bit of toil for the greater good

Treat people as individuals

Reply to inquiries, help where you can.

This is **not** a classic SRE "cattle not pets" situation.

Follow-up w/ successful students

congratulate those who get and/or accept an offer.

Follow-up with the others

who were not selected after interviewing or who declined your offer.

Keep meticulous records

to show incremental progress in the short term while recognizing that we are in this for the long haul.

3. Take steps to build a diverse pipeline

Look beyond the "top" schools

Cast a wide net and be inclusive about the schools you build relationships with.

Don't just focus on the very top academic institutions

Partner with student groups

Research student groups aligned with populations under-represented in Tech.

Show up at events

e.g., Women in STEM events, International Women's Day Events.

Leverage employees from URGs

who can be role models to the students you'd like to recruit.



Path to Google:

Catalina

Google Dublin



4. Volunteers & role models are critical to success

Activate recent grads

e.g., host panel discussions with recent grads

Utilize alumni networks

e.g., appoint alumni champions to work with their schools

Inspire: "I could do that!"

Help current students see what's possible and to see themselves in the volunteers sent to campus

Demystify what the role is like

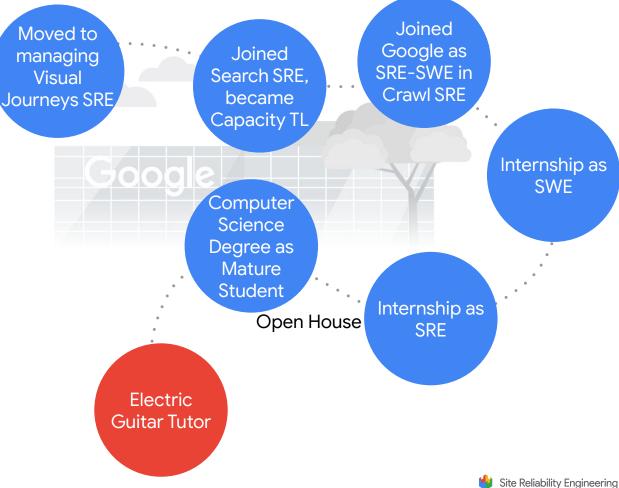
Engineering/SRE volunteers talk about what they do and help build excitement about internships and full time roles



Path to Google:

Daniel

Google Dublin



5. Be a good partner (but be willing to 'go rogue')

Make friends with your Staffing team

You need their expertise, their processes, and their support in order to be successful

Google

Recruit a recruiter

to join your core team

Ask for forgiveness...

...rather than permission

Convince the skeptics

Understand why they are skeptical and then bring data that demonstrates small and steady progress.

6. Play the long game while demonstrating short term "wins"

Focus on intern recruiting

The stakes and barrier to entry tend to be lower. Placements give students hands-on experience that will help them be successful in industry once they graduate.

"Convert" your interns to full time hires

after one internship (or 3!) or even a few years after graduation.

Promote "feeder" roles

SRE might not be the right role for some students immediately after graduation. Are there other roles they may be more suited to now that may lead them to SRF down the road?

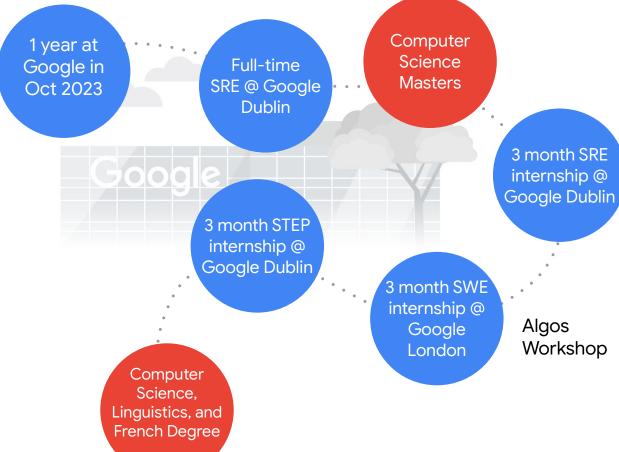
Communicate incremental progress

in driving applications... in number of interviews... in interns hired... in full time hires. Do this at least once a year.





Path to Google:
Sophie
Google Dublin



7. Take a broad view of success

Location

We were focused on recruiting from schools in Ireland, but success = placing a student anywhere in the world

Role

We were focused on recruiting for SRE roles, but success = placing a student in a wide range of engineering roles.

Timing

We were focused on recruiting new grads but success = hiring any students who engaged with our programs even after graduation.

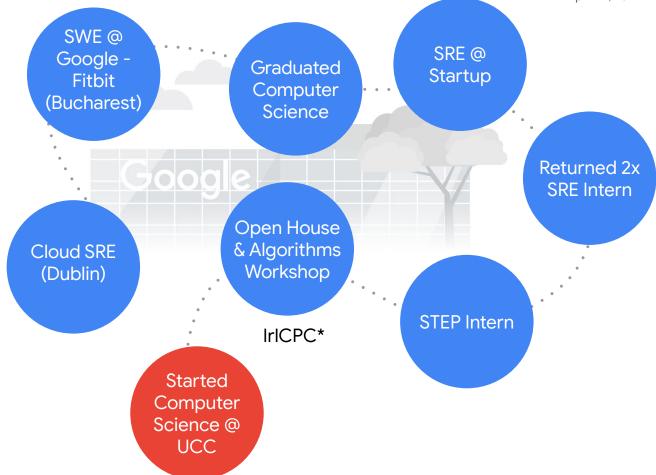
Elevating the profession

We were focused on recruiting for Google, but we considered it a success if a student pursued SRE as a profession anywhere.

Site Reliability Engineering

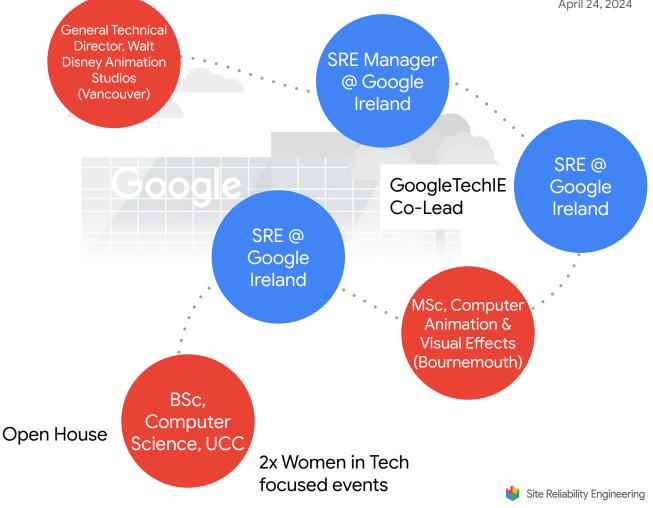


Path to Google: Aidan Google Dublin





Path to Google: Eimear Xoogler, Dublin



8. Make it Self-Sustaining





Can we bootstrap new grads into new SREs?



Can we bootstrap new grads into new SREs?





SRE may not be routinely taught in the classroom...

SRE may not be routinely taught in the classroom...

...but that isn't an insurmountable obstacle to new grad hiring

SRE may not be routinely taught in the classroom...

...but that isn't an insurmountable obstacle to new grad hiring

Awareness raising + skill building

SRE may not be routinely taught in the classroom...

...but that isn't an insurmountable obstacle to new grad hiring

Awareness raising + skill building = A Winning Formula

SRE may not be routinely taught in the classroom...

...but that isn't an insurmountable obstacle to new grad hiring

Awareness raising + skill building = A Winning Formula

 Can you bootstrap new grads into new SREs?

SRE may not be routinely taught in the classroom...

...but that isn't an insurmountable obstacle to new grad hiring

Awareness raising + skill building = A Winning Formula

 Can you bootstrap new grads into new SREs?

yes! If you are willing to put in the effort...

SRE Classroom - sre.google/classroom

Tutorials



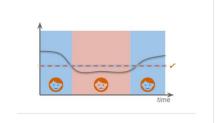
Distributed PubSub

Build a planet scale distributed PubSub system using NALSD principles. Learn about some foundational large system design principles and concepts. Topics include correctness, reliability, performance, different inter-system communication styles, and more. We introduce the problem requirements in detail and walk through an example solution.



Distributed ImageServer

Build a planet scale distributed ImageServer system using NALSD principles. Learn about some foundational large system design principles and concepts. Topics include sharding, replication, latency, load balancing, and more. We introduce the problem requirements in detail and walk through an example solution.



The Art of SLOs

The Art of SLOs introduces participants to concepts in measuring service reliability: Service Level Indicators (SLIs) and Service Level Objectives (SLOs), and gives them some hands-on experience with creating these measures in practice.



Jennifer Petoff

Director of Program Management, Google Cloud Platform & Technical Infrastructure...





