

Making the Most of your Summer Internships

*Elizabeth Bautista,
Lawrence Berkeley National Lab*

*Goranka Bjedov,
Facebook*

*CRA-W.org
@CRAWomen*



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What does CRA-W do?

Individual & Group Research Mentoring

Undergrads: Undergraduate Research Experiences

Undergrads: Distinguished Lecture series/role models

Grad Cohort: Group mentoring of graduate students

Grad Students: Discipline Specific Research workshops

Academics/PhD Researchers: Group mentoring for early and mid career @ CMW, Grace Hopper, and Tapia



2400+ students & PhDs a year

*Stay in touch: CRA-W.org, @CRAWomen,
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CRA-W Events at Grace Hopper

Visit the CRA-W Booth in the EXPO to learn more (#2050)



Attend another CRA-W Session
Wednesday (3): Thursday (3) or Friday (1)



Visit a CRA-W Table at the
Student Opportunity Lab on Friday
(Undergrads)



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Who we are?

Elizabeth Bautista
Operations Technology Group
National Energy Research Scientific
Computing Center (NERSC)
Lawrence Berkeley National Lab



Goranka Bjedov
Performance and Capacity Engineer
Facebook



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Soft Skills and Technical Aspects

Two areas of focus are intertwined: the soft skills and technical

- Soft skills can be focused technically
 - Managing Expectations
 - Professional Relationships
 - Organization culture
 - Make it count for you
 - Own your work
 - Be open to constructive criticism



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Working with Technical People

- Synonym for “people skills”
 - Non-technical
 - Can apply soft skills to technical aspects of the job
- Personal attributes that indicate a high level of Emotional Intelligence
- Why do they matter
 - How you deal with technical people, especially your colleagues
 - How you are regarded
 - How you work with others
 - Enable you to function and thrive in teams
 - Creates a healthy work environment



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Technical Expectations are people skills

- Communication – tone, style, tailored to audience, act accordingly
- Self-motivation – initiative, reliability, commitment
- Leadership – positive attitude, outlook, effective communication, motivating others, setting an example
- Responsibility – self awareness, humility, willingness to learn and progress
- Teamwork – working toward a common goal, listener, perceptive



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More soft technical skills ... cont

- Problem solving – analytical, critical
- Decisiveness – put things in perspective, weigh options, assess what is relevant, anticipate consequences
- Time management – deadlines, meetings, schedules
- Flexibility – willingness, openmindedness
- Negotiation and Conflict Resolution – persuasive, influence, establish rapport



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Manage your Expectations

Have reasonable expectations

- What are you doing for the summer
 - Mundane?
 - Research for someone
 - Graphs for data
 - Lots of reading
 - Glamorous?
 - Arranging meetings
 - Software development – single module
 - Learning the field
 - Exposure
 - Experience
 - Resume
- Make the most of it !!



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Manage your technical Expectations

Have reasonable technical expectations

- What are you doing for the summer
 - If you are a CS major, you should be coding?
 - Find out their coding standards and follow them
 - Ask questions
 - Offer opinions
 - Have someone review your code?
 - Learn from mistakes
 - Learn from different standards
 - Learn before asking
 - Research before asking
 - Ask to clarify
 - Be self-sufficient
- Make the most of it !!



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Professional relationship

Prove yourself through managing your professional relationships

- Dependable
 - Arrive on time and ready
 - Don't goof off
 - Do what you say, manage deadlines
- Attention to detail; be prepared
 - Follow instructions
 - Care about quality of your work
 - Do an excellent job even if it's not the greatest work
 - Build your "work" portfolio
- Listen for great ideas: find your next projects
 - Go to talks and ask questions (think of questions in advance)
 - Go to group meetings and pay attention, participate and contribute
- Be open to trying something new and interesting



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Technical relationship

Prove yourself through managing your technical relationships

- Impactful
 - Ask for challenging assignments
 - Complete quickly and ask for feedback
 - Perform and manage deadlines
- Attention to detail; be prepared
 - Documentation – people hate to do this
 - Care about quality of your work
 - Consistently do a good job
 - Save your “work” portfolio – make it available online for future show and tell
- Listen for great ideas from colleagues
 - Be attentive at technical or update meetings and ask questions
 - You may not understand everything – research them
- Be open learning new tools and new programming languages



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Organizational Culture

Pay attention to office politics and culture

- Observe how others work in the office and mirror that
 - How do people talk, dress, address each other, do in their down time
 - Perform and act like the staff around you
- Listen but do not gossip
- Get to know the people you need to know
 - Find a way for them to remember you
 - Get to know as many people as possible: unofficial leaders
- Stand out in comparison to other interns
 - Get introduced early on
- Dress appropriately
 - Dress for the job not your campus



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Organizational Technical Culture

Pay attention to how people work

- Observe how others work in the office and mirror that
 - Do they use github, slack/IM, e-mail, gdoc/collaboration
 - Use the same tools like the staff around you
- Get to know the people you need to know
 - 15 min tech coffee break/lunch to learn more
 - Get to know as tech areas possible
- Stand out in comparison to other interns
 - Accomplish technically what others cannot
- Hackathons?
 - Do the same technical activities, ie meet ups



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Make it count for you: Resist the “do-nothing” Internship

Pay attention and focus on your work

- Resist digital socializing
 - Social media, web surfing
 - Texting, IM-ing friends
 - It does impact your work: perception
- Weekly status reports to your supervisor
 - Keep them in the loop
 - Generate new ideas
 - Find out what they are working on
 - Mitigate any issues ie travel plans, alternate technical contact
 - Positive way to end the week
- Staff opinion counts – have a positive memorable impact
 - Be resourceful – research on your own before asking for help
 - Take on challenging projects with optimism and eagerness to learn



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Make it count for you: Resist the “non-technical” Internship

Pay attention and focus on your work especially
when the task is a challenge

- If your supervisor isn't available, find out who is #2
 - Always know whom you can ask technical questions
 - Always have an objective and a deadline
 - Research the topic
- Show what you have achieved
 - Poster session?
 - Co-write a submission to a conference
 - Apply for a scholarship to attend a technical conference
 - End your internship in a positive way
- Staff opinion counts – have a positive memorable impact
 - Ask about other areas ie systems administration, operations, networking
 - Ask about the type of classes you should be taking, ie computer architecture, software development



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Own your work

Take responsibility for errors

- The impact is greater in the workplace compared to school
 - Affects more than you
 - Handle it correctly
 - Don't blame
 - Don't cover it up
 - Don't make excuses
 - Own it and FIX it
 - Tell your supervisor it won't happen again
 - Mean it !!
- Help others in normalizing a mistake – especially another intern
 - Bring the “cohort” together
 - Leadership role
 - Teamwork, team building
- Say “thank you” and express appreciation



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Be open to Constructive Criticism

Be proactive in seeking and accepting feedback: good or bad

- Ask your supervisor
 - How am I doing?
 - What can I do better?
 - Am I meeting your expectations? Goals of the project?
 - Make it easy for them to provide you input
 - Professional development
 - Make suggestions ie Toastmaster
 - Incorporate into your daily work
- Learn from your co-workers/staff (people want to talk about themselves and will be flattered, and want to help you)
 - Ask about their careers
 - What do they like about it
 - What is a good day, what is a bad day
 - What advice do they have, tell them you value their opinion (potential mentor or sponsor)



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Stretch yourself technically

What to ask for if your internship doesn't have it

- Training: internal "classes"
- Presentation: Brown bag, poster session, final report
 - Gives you a chance to show off what you did for the summer
 - Others who haven't seen you, will see you
 - Ask your supervisor early and schedule it, market it
- Beyond summer
 - Conference presentation
 - Travel support
 - Paper submission, co-author
 - Continue the work: can you be paid to work remotely
 - Potential of returning
 - References



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THANKS

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