

Statistics Internship Searching

Paul L. Rainey, PhD

Learning Outcomes



Timelines & On-Campus Recruiting

01

Participants will learn about typical timelines employers use for internship recruiting

What Employers are Looking For

Participants will learn what employers are looking for and will understand how to read a job description to connect their skills to the requirements

Resume Construction

Participants will learn the fundamentals of creating a resume for internship applications

03

Networking

Participants will learn how to use LinkedIn and how to approach recruiters and hiring managers for internships

04

On Campus Internship Search



SPRING 2024 CAREER FAIRS

Date	Event	Location	Contact
Jan 24 & 25	Engineering Career Fair*	Legends Event Center in Bryan, TX	careerfair@sec.tamu.edu
Jan 26	Engineering Career Fair*	Virtual on Symplicity	careerfair@sec.tamu.edu
Jan 30	Arts and Sciences Career Fair - Day 1: Social Sciences & Humanities*	MSC 2300	jzenn@exchange.tamu.edu
Jan 31	Arts and Sciences Career Fair - Day 2: Sciences & Math*	MSC 2300	bosborne@tamu.edu
Feb 1	AGLS Career Fair (Agriculture & Life Sciences)*	MSC 2300	aglscareerfair@tamu.edu
Feb 2	PAID Career Fair (Industrial Distribution)	Kyle Field - Ford Hall of Champions	recruitment@tamupaid.org
Feb 7 & 8	Business Career Fair*	Kyle Field - Ford Hall of Champions	cfair@mays.tamu.edu
Feb 14	Sales Career Fair*	MSC 2300	jmelton@mays.tamu.edu
Feb 20	ECHO Healthcare Symposium*	MSC 2300	ablum@tamu.edu
Feb 22	<u>Visualization Industry Fair</u> (VIF)	Virtual on Discord	pvfavizindustryfair@tamu.edu
Feb 23	<u>Visualization Industry Fair</u> (VIF)	MSC 2406	pvfavizindustryfair@tamu.edu

Go to careercenter.tamu.edu → Events & Programs → Career Fairs

Timelines



On-campus recruiting for internships often follows a timeline

Example One

Fall Source Candidates

Spring Interview Candidates

Summer Start Internship

Timelines



On-campus recruiting for internships often follows a timeline

Example One

Fall Source Candidates

Spring Interview Candidates

Summer Start Internship

Example Two

Early Spring Source Candidates

Late Spring Interview Candidates

Summer Start Internship

Scenarios



Jordan is at an interview at Aggie Corp., a premiere manufacturer of widgets. During the introduction, Jordan is asked a typical interview question: "What do you know about our company?"

Answer 1

"You are one of the top widget manufacturers in the world and are known specifically for the product lines of the Goodbull Widget and the 12th Man Widget. Your top values are Excellence, Integrity, Leadership, Loyalty, Respect, and Selfless Service."

Scenarios



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Answer 1

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Answer 2

"You are the top widget producer in North America and climbed from number 3 to number 2 in Europe over the last year. Your top product lines are the Goodbull and 12th Man Widgets, which have been responsible for 67% of the market share in the sector. Your top competitor is Bevo Widgets, but you have chosen to compete on product quality rather than price, which has given you an edge over Bevo. Culturally, your teams are aligned along the pillars of Excellence, Integrity, Leadership, Loyalty, Respect, and Selfless Service."

Determine Research Points



What employers are a good fit

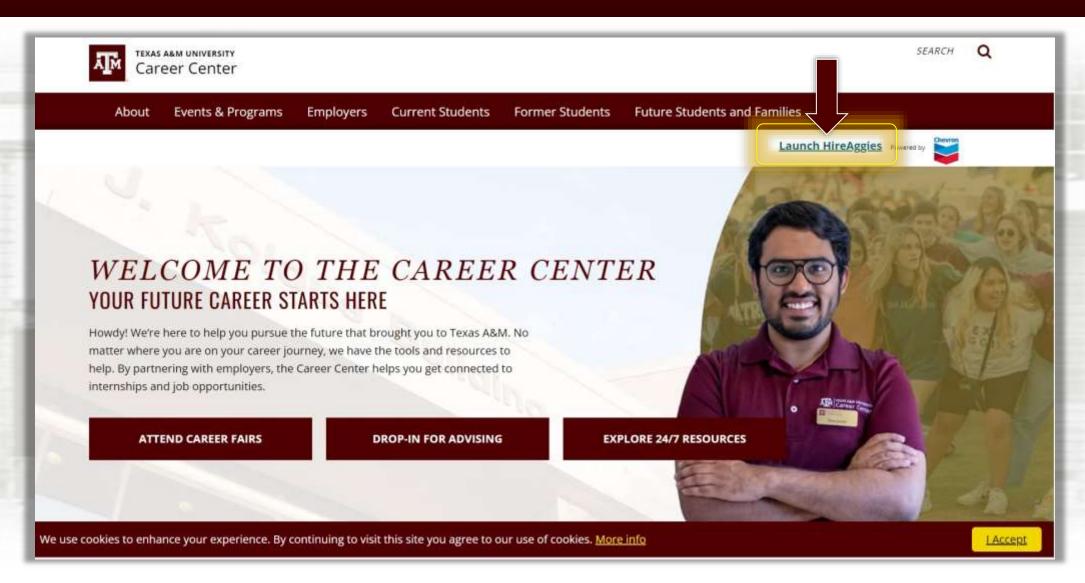
What employers are stable

What employers do

What employers convert interns to full time

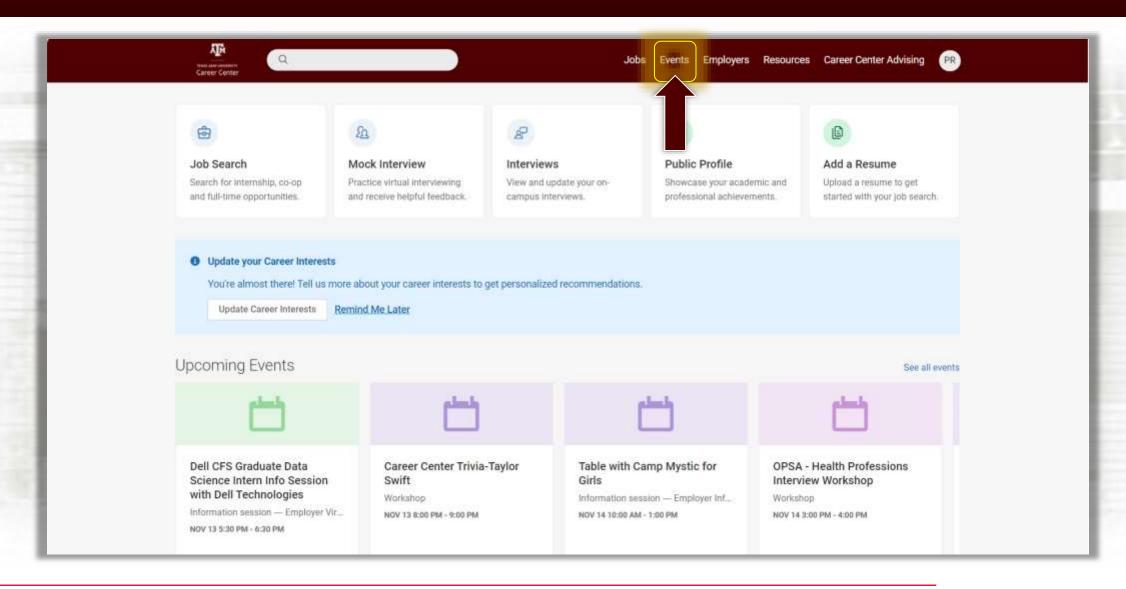
Job Platforms





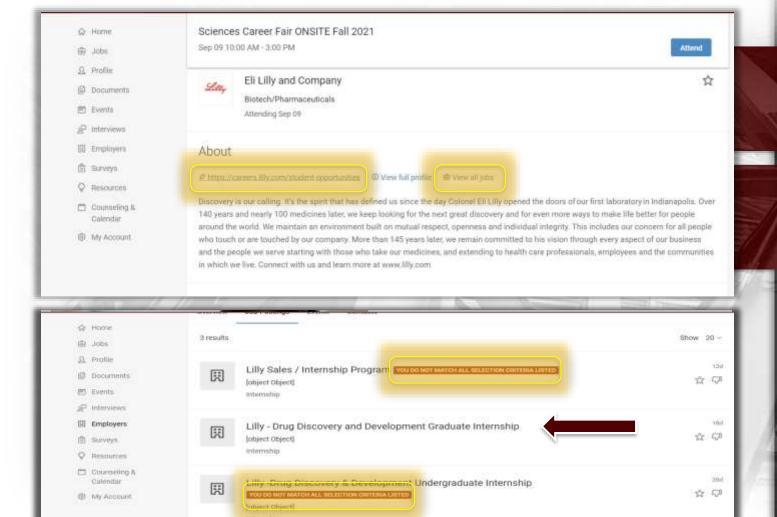
Job Platforms





Research Positions





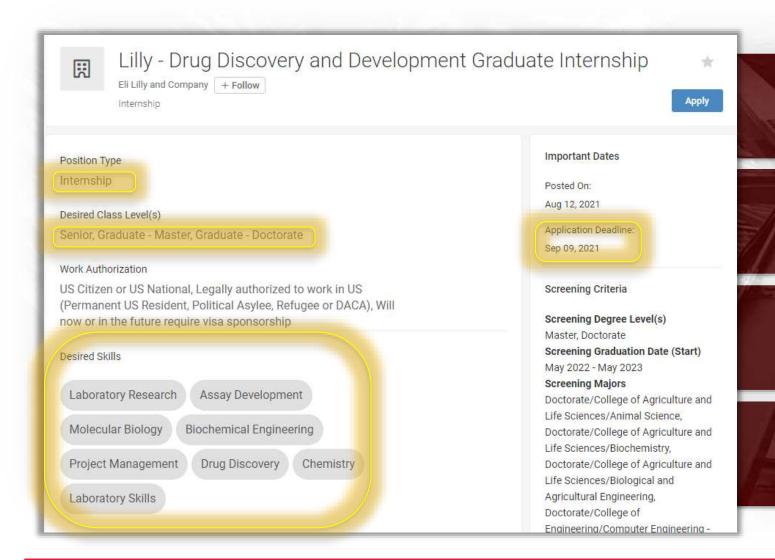
Click on **Links** to learn more about opportunities

Click on View Jobs to see what an employer has posted

Don't ignore interesting positions even if it states you don't match selection criteria

Research Positions





Find the position type

Also consider positions that may not ask for graduate-level

Be mindful of application dates, can apply before fair

Look to see what skills are desired for the position

Your Story



Throughout your career and educational journey, you have developed a **career story**

Employers Interested in Two Things

1. Skills

2. Accomplishments

Make the Connection





Help the employer connect the dots as to why your unique **knowledge**, **skills**, **abilities**, and other attributes (KSAs) make you a good fit for a position.

Parker S. Aggie

Bryan, TX | 979-555-5555 | psaggie@tamu.edu

Analytic-focused data professional with **2+ years' experience** developing computational models and executing statistical projects to drive insights. Demonstrated ability to translate complex datasets into actionable information and support overarching research initiatives.

EDUCATION

Texas A&M University, College Station, TX Master of Science (MS) in Statistics

May, 20xx (anticipated) GPA: 3.xx/4.x

University of California San Diego, San Diego, CA Bachelor's of Science (BS) in Physics

May, 20xx GPA: 3.xx/4.x

EXPERIENCE

Texas A&M University, College Station, TX

August, 20xx - Present

Graduate Research Assistant for the Aggie Computer Research Group

- Collaborated with cross-functional team of computer, electrical, and mechanical engineers to define
 and prioritize data science projects, driving \$1.5M NIST-funded research in multimedia storage systems
- Worked with 32K+ datasets, designing and implementing data processing pipelines to clean and preprocess data for multivariate analysis
- Conducted exploratory data analysis (EDA) on large datasets using Python and SQL, identifying key trends and patterns to inform research focused on multimedia bit rate conversion
- Conducted statistical analysis of experimental results to evaluate the effectiveness of algorithms and models
- · Developed software tools and libraries in Python to facilitate data analysis, visualization, and modeling
- Presented weekly research updates with Tableau dashboards and made recommendations to primary investigator on study direction

University of California San Diego, San Diego, CA

June, 20xx - August, 20xx

Undergraduate Researcher for the Computer Science Lab

- Used SQL to extract and manipulate data from relational databases for \$250K funding
- Maintained and updated existing data pipelines and extract, transform, and load ETL workflows to
 ensure data integrity and reliability
- Implemented data cleaning and preprocessing from raw Excel data to transfer into Stata for further analyses

LEADERSHIP

Texas A&M University Graduate Consulting Club, College Station, TX

June, 20xx - Present

Events Committee Member

- Assisted in coordinating and executing successful case interview competitions for the club, involving over 25 participants and 3 judges from consulting firms
- Conducted post-event surveys through Qualtrics and analyzed feedback in Excel to improve future events, making recommendations to committee and implementing changes based on feedback

SKILLS

Simple Linear Regression | Multivariate Linear Regression | Statistical Modeling | Data Integrity Parametric Tests | Nonparametric Tests | Sampling Methods | Natural Language Processing (NLP) Tableau | R | VBA | Excel | Python | SQL | Java

Write with the audience in mind

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Summary Formula

[Broad title] with expertise in [list 3 key skills/methodologies]. Diverse experience and success in [list 2 or 3 roles/industries/projects]. [Task done] resulting in [list accomplishments]. Able to [task]. [<-the need]

Example

Data analyst with proficiency in data processing, pattern recognition, and statistical modeling. Varied experience and accomplishments in developing data analysis protocols. Pioneered novel data cleansing technique leading to 20% reduction in processing time. Proficient in managing multiple projects from day one.

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Be intentional with skills

Keywords are important because recruiters use them when doing searches inside their applicant tracking systems (ATS) and they show alignment with the job.

When directly applying to a position, the job description often signals what key words are important.

Some Key Words for Statistics

Algorithms

Big Data

Clustering

Data Cleansing

Data Mining

Data Visualization

Decision Trees

Descriptive Statistics

Data Exploration

Data Preprocessing

Hypothesis Testing

Machine Learning

Multivariate Analysis

Predictive Modeling

Regression Analysis

Statistical Analysis

Time Series Analysis

Unstructured Data

Variance

Visualization Techniques

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But don't simply stuff your resume full of keywords!

Make sure you can **qualify** or **quantify** that skill.

A student is considers putting **R Programming** on their resume as a skill

Before doing so, student anticipates interview questions they may get asked regarding this skill:

"Tell me about a time you used R to analyze data that hadn't been cleaned?"

"On a scale of 1 – 5, how comfortable are you with R Programming?"

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Job Dimensions

Impact



Scope

Level of oversight over work and employees and purview

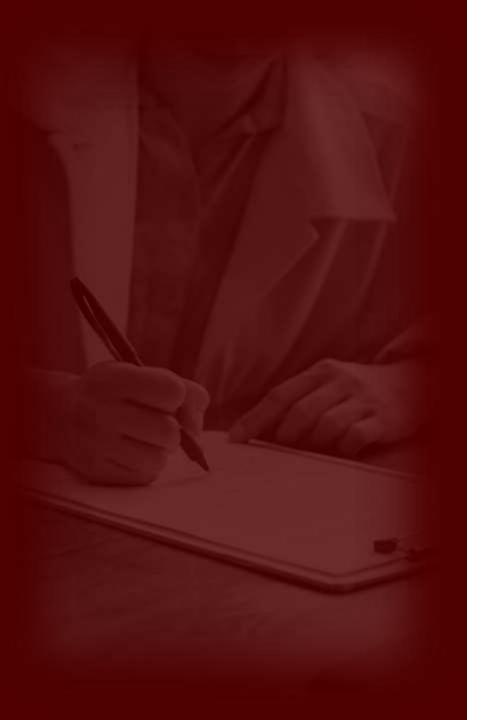
Responsibility

Day-to-day duties and general expectations

Judgment

Authority level and ability to make independent decisions

Influence potential on meaningful business decisions



Action Verb



Duty or Tasks



Task or Duty Impact



Scope Responsibility Judgment Impact



Judgment Scope Used SAS to pute statistical tests Loaded data from various sources, such as spreadsheets, **Basic** databases, or text files, into SAS for further analysis Programmed OLS regression in SAS and examined regression coefficients, identifying 2 significant predictors Middle and direction and strength of their impact on participant satisfaction Built and applied custom SAS macro to perform longitudinal data analysis, accounting for individual-**Expert** specific variations and repeated measurements over 2 vears

Responsibility **Judgment** Scope

Small SAS

Large

How can we show the extent of our impact?

- Conducted cluster analysis using SAS to analyze trial data Discuss who was affected throughout research the reporting
- Discovered novel patient stratification based on exploratory data analysis (EDA) in SAS, leading to personalized treatment recommendations with potential to affect 2.5M patients

Role will impact healthcare stakeholders

Things to Keep in Mind



Be specific and stick with technical skills in Skills section

"Communication" is very broad, but "Scientific Writing" is specific. Soft skills, such as leadership and organization, are best saved for bullet points and cover letter rather than Skills section

Use both abbreviations and the full spelling

Recruiters may do searches using either, so cover all your bases by using both—e.g., Exploratory Data Analysis (EDA). Some very common abbreviations, such as SCUBA, don't need the full word

Go beyond the Skills section to highlight keywords

The Skills section aids in quick eye scanning of the resume, but bullets create context

Goodbull L. Kaur

College Station, TX 77840-glkaur@tamu.edu-(979) 555-555

- ✓ Accomplished statistics student with foundation in machine learning and track record of utilizing advanced techniques to analyze and derive valuable insights from large datasets
- Proficient in Natural Language Processing (NLP) and adept at developing and deploying generative models for text generation
- ✓ Demonstrated expertise in training deep neural networks, optimizing model performance, and implementing scalable solutions to tackle complex data-driven challenges

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College Station, TX May, 20xx (anticipated)

Coursework: Reproducible Computations in Machine Learning, Communication Skills in Statistical Research, Stochastic Processes, Statistical Aspect of Machine Learning I & II, Asymptotic Statistics

University of Texas at Austin

Austin, TX May, 20xx

Bachelors of Science in Economics

Coursework: Economic Statistics, Integral Calculus, Math Micro Theory Advanced Applications

EXPERIENCE =

Texas A&M University, Harley L. Whoop Lab

College Station, TX May, 20xx - Present

Graduate Research Assistant

- Collaborate with team of primary investigator, 3 graduate students, and 2 post-docs, to use Artificial Intelligence (AI), Machine Learning (ML), and statistical analysis, to improve economic forecasting and decision-making through utilization of large-scale (250k observations) financial datasets
- Leverage Natural Language Processing (NLP) techniques to extract and analyze textual data, improving sentiment analysis models for predicting market trends and investor sentiment
- Develop and implement novel Long Short-Term Memory (LSTM) network architecture to model and forecast time-series financial data, achieving a 15% reduction in prediction error
- Utilize Reinforcement Learning algorithms to optimize portfolio management strategies, leading to 20% increase in annual returns in simulated trading scenarios
- Conduct comprehensive data mining, including stepwise regression and exploratory data analysis, to identify key economic indicators and relationships
- Apply Bayesian inference and Monte Carlo simulations, to quantify uncertainty in economic forecasts—implications of assisting policymakers in making more informed decisions
- Collaborate with industry partners to secure funding for research projects, resulting in \$150k grant for development of Al-based financial risk assessment tool

Texas A&M University, Department of Statistics

College Station, TX

Graduate Teaching Assistant

December, 20xx - August, 20xx

 Assisted lead instructor in creating and delivering lectures on statistical concepts to 500+ undergraduates for educational services valued at \$250k

- Demonstrated proficiency in R, Python, or SPSS, aiding students in data analysis, visualization, and interpretation, enhancing student practical skills in statistical applications
- Conducted weekly tutorial sessions, providing one-on-one and group support to students, resulting in 15% increase in overall class performance and a reduced rate of academic withdrawals

INTERNSHIP

PriceWaterhouseCoopers (PwC)

Dallas, TX

Strategy & Deals Senior Associate Intern

May, 20xx - August, 20xx

- Recruited from on-campus interviewing, reporting to Director of Strategy and Deals to applying
 problem-solving skills to address complex business issues
- Developed deep understanding of PwC's business operations, values, and client-focused approach, effectively increasing client satisfaction (3 individuals) by 20%
- Demonstrated ability to think critically, ask relevant questions, and collect and analyze business and industry trend information, leading to a 25% reduction in project completion time
- Successfully completed internship as part of PwC's commitment to fostering authentic and inclusive leadership at all levels and across various service lines

COURSE PROJECTS

Bird Migration Analysis

Statistical Methodology I, Department of Statistics

Fall, 20xx

- Conducted comprehensive project analyzing bird migration habits by employing regression analysis, identifying key environmental factors and impact on bird migration patterns, resulting in the development of predictive models with an R-squared value of 0.85.
- Employed factorial analysis to examine the interaction effects between multiple variables, shedding light on the nuanced relationships between habitat characteristics, climate changes, and bird species migration behavior, providing valuable insights for conservation efforts.
- Collected and processed extensive migratory data, performing data cleaning and transformation to
 ensure the accuracy and reliability of the dataset, reducing data errors 25%
- · Presented project findings to class of 15 through data visualization in Tableau

Survival Analysis of Cancer Patients

Theory of Linear Models, Department of Statistics

Spring, 20xx

- Analyzed 500-person cohort of cancer patients' data to assess overall survival rates using Kaplan-Meier curves to generate insights into disease prognosis and treatment outcomes
- Implemented stratification techniques to compare survival between different patient groups, such statistically significant differences in survival probabilities (p < 0.05)
- Generated comprehensive reports with Kaplan-Meier curves, highlighting survival trends over time a

HONOR

Association of Former Students Outstanding Graduate Student Award in Teaching G.R.A.D. Aggies Professional Development Certificate

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Fall. 20xx

- Conducted comprehensive project analyzing bird migration habits by employing regression analysis, identifying key environmental factors and impact on bird migration patterns, resulting in the development of predictive models with an R-squared value of 0.85
- Employed factorial analysis to examine the interaction effects between multiple variables, shedding light on the nuanced relationships between habitat characteristics, climate changes, and bird species migration behavior, providing valuable insights for conservation efforts.
- Collected and processed extensive migratory data, performing data cleaning and transformation to ensure the accuracy and reliability of the dataset, reducing data errors 25%
- Presented project findings to class of 15 through data visualization in Tableau

Survival Analysis of Cancer Patients

heory of Linear Models, Department of Statistics

Spring, 20xx

Analyzed 500-person cohort of cancer nationts! data to assess overall survival rates using Kaplan.

- dustry trend information, leading to a 25% reduction in project completion time
- Successfully completed internship as part of PwC's commitment to fostering authentic and inclusive leadership at all levels and across various service lines

COURSE PROJECTS

Bird Migration Analysis

Statistical Methodology I, Department of Statistics

Fall, 20xx

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Survival Analysis of Cancer Patients

Theory of Linear Models, Department of Statistics

Spring, 20xx

- Analyzed 500-person cohort of cancer patients' data to assess overall survival rates using Kaplan-Meier curves to generate insights into disease prognosis and treatment outcomes
- Implemented stratification techniques to compare survival between different patient groups, such statistically significant differences in survival probabilities (p < 0.05)
- Generated comprehensive reports with Kaplan-Meier curves, highlighting survival trends over time

HONORS

Association of Former Students Outstanding Graduate Student Award in Teaching G.R.A.D. Aggies Professional Development Certificate

Fall, 20xx Summer, 20xx

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Fall, 20xx Summer, 20xx

Reading a Job Description



Basic Qualifications (BQ)

These are the objective baseline requirements needed in order to be qualified for the job. Your resume needs to demonstrate them.

If student is studying for a PhD, they will meet the 4-year requirement.

If they are a master's student, how can they get the experience? **Be creative!**

REQUIREMENTS

 Master's degree in public health, epidemiology, statistics, biostatistics, math, economics, quantitative social sciences, or related discipline plus four years' related experience, or equivalent combination of education and experience.

Equivalent education/experience will substitute for all miximum analifications except when there are legal tequirements, such as a

to Shanco Constituation / ranistration



Preferred Qualifications (PQ)

These are "nice to have" qualifications that the recruiter and hiring manager(s) will be looking for. Find ways to match skills to them.

Additional Requirements:

- Results- and detail-oriented individual who can initiate and complete tasks under tight deadlines and changing priorities both independently and in a team environment. Flexibility with hours and workload is key.
- Demonstrated research experience or interest in drug and alcohol use disorders. Excellent analytic, critical thinking, and quantitative skills.
- Experience devising and executing statistical modeling techniques.
- Demonstrated ability to quickly recognize problems in results and identify root causes in data, methods, and code.
- Highly skilled in designing, executing, and troubleshooting code in R.
- Excellent written and oral communication skills required, including track record of success in co-authorship on multiple scientific papers, presenting results, and representing research at meetings.
- Ability to work both independently and in collaboration with a

Student has not specifically researched drugs but has looked at sensorimotor functioning.



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Student has done statistical modeling in their own research and their PI's research.



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Student solved a major problem with data that was heteroskedastic in an experiment they had run.



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Student's main experience is with SPSS and SAS for data computation.



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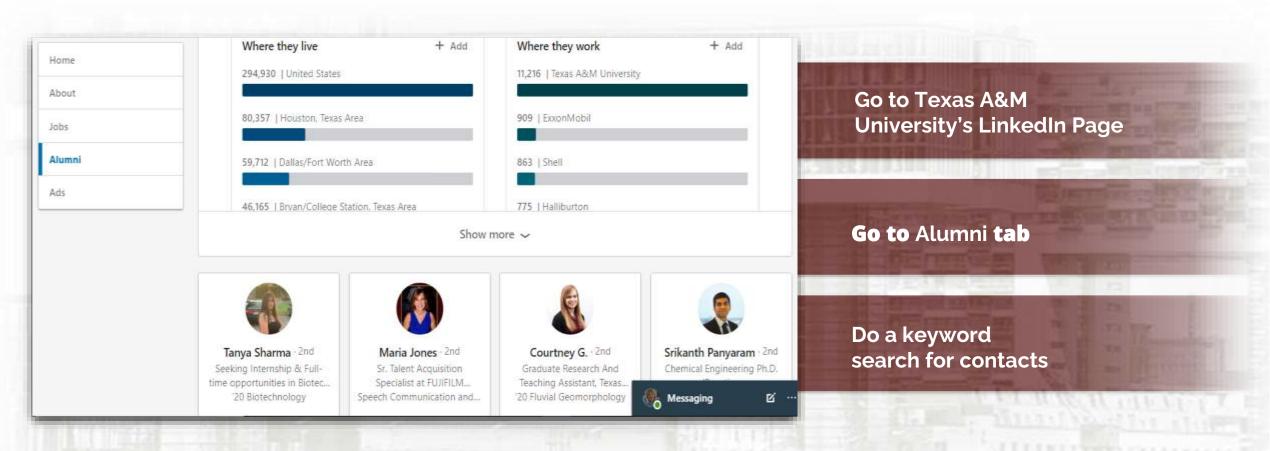
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- Ability to work both independently and in collaboration with a

Student will have several papers and presentations from their research.

Networking with LinkedIn

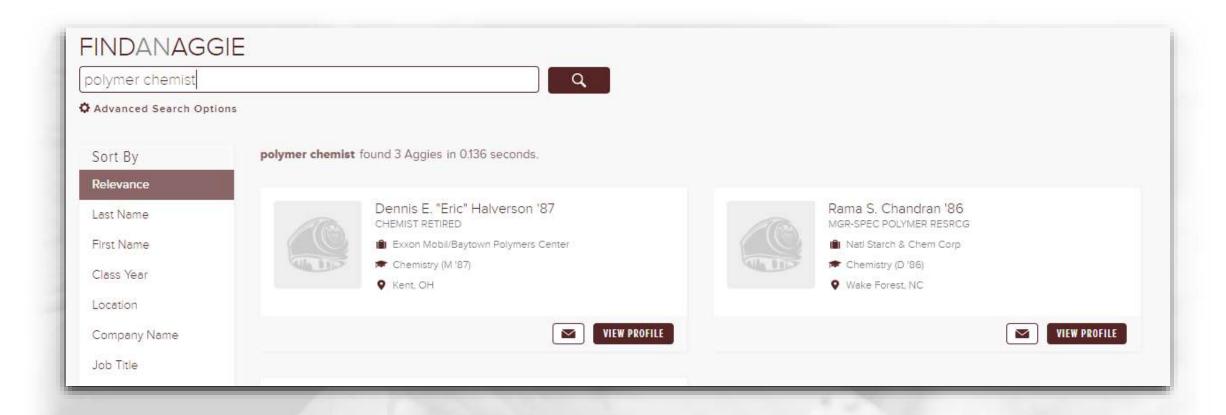




315k+ Aggie Alumni

Association of Former Students





aggienetwork.com

Career Influencers



We'll refer to **CAREER INFLUENCERS** as people within organizations who may want to connect with on LinkedIn who can move you toward a job or a career.



Recruiter Types



Campus Recruiters

Focused on early career talent
Sources through career fairs and informational events
Part of longer hiring cycle and seasonally recruits

Corporate Recruiters

Focused on early, mid, or senior career talent **Sources** through LinkedIn, job postings, referrals, and ATS **Part** of shorter hiring cycle

Agency Recruiters

Focused on niche or executive level roles **Sources** through LinkedIn, job postings, and databases **Part** of very fast hiring cycle

Finding Recruiters



Recruiters are tasked with **finding people for jobs** rather than finding jobs for people

So be intention with your strategy for reaching out to recruiters and make their job easier!



Lynn Gomez, MSW, HCS

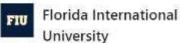
Associate Tech Recruiter, Emerging Talent HubSpot - We're Hiring!

Talks about #hiring, #recruiting, #recentgrads, and #internshipopportunity

Greater Tampa Bay Area - Contact info



HubSpot



About

I'm an Associate Tech Recruiter on HubSpot's Emerging Talent Team. My passion is connecting students and early talent to the incredible opportunities at HubSpot to launch their careers in tech.

Interested in a Software Engineering Internship or Co-op with HubSpot? Let's connect!

What is HubSpot?

HubSpot is a leading customer relationship management (CRM) platform for scaling companies. Tens of thousands of customers all over the world use our marketing, sales, and customer success software to grow their businesses. It's our mission to not just help them grow, but to help them grow better. That's how we'll build a company future generations will

Look at **job title** to get an idea of what types of jobs the person recruits for

Lynn Gomez, Ivisvv, ncs

(she/her/ella) · 2nd

Associate Tech Recruiter, Emerging Talent @ HubSpot - We're Hiring!

Talks about #hiring, #recruiting, #recentgrads, and #internshipopportunity

Greater Tampa Bay Area · Contact info



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HubSpot is a leading customer relationship management (CRM) platform for scaling companies. Tens of thousands of customers all over the world use our marketing, sales, and customer success software to grow their businesses. It's our mission to not just help them grow, but to help them grow better. That's how we'll build a company future generations will be proud of.

Named Glassdoor's #1 Best Place to Work in 2020 and #4 Best Place to Work in 2021, HubSpot has been recognized for its award-winning culture by Great Place to Work, Comparably, Fortune, Entrepreneur, Inc., and more.

Your best work starts here: hubspot.com/careers

Look at their About section to learn more about their **territory** and job **requisition portfolio**

Making the Initial Contact

Let's try this again by making Lynn's job easier

Making the Initial Contact

Dear Lynn,

I am a statistics graduate studer at Texas A&M University. My focus is on deep learning and do a engineering.

I've been interested in HubSpots mission to create an ecosystem to help businesses grow that a conscience, since it aligns with my own personal values.

In the near future, will you filling any internship roles with an emphasis on data engineer of or machine learning or connect me with recruiters who are?

STRONG Introduction

Focuses on Lynn's future **pipeline** of candidates

Demonstrates research into Lynn's employer

Doesn't overwhelm with a laundry list of skills

Variation on Introduction

Dear Lynn,

I am a statistics graduate student at Texas A&M University. My focus is on deep learning and data engineering.

I've been interested in HubSpot's mission to create an ecosystem to help businesses grow with a conscience, since it aligns with my own personal values.

I want to be ready to apply when it comes time for any internship opportunities. Accordingly, would you mind telling me when your next hiring cycle starts and if there are any specific skills you recommend I emphasize on my resume?

Variation on Introduction

Dear Lynn,

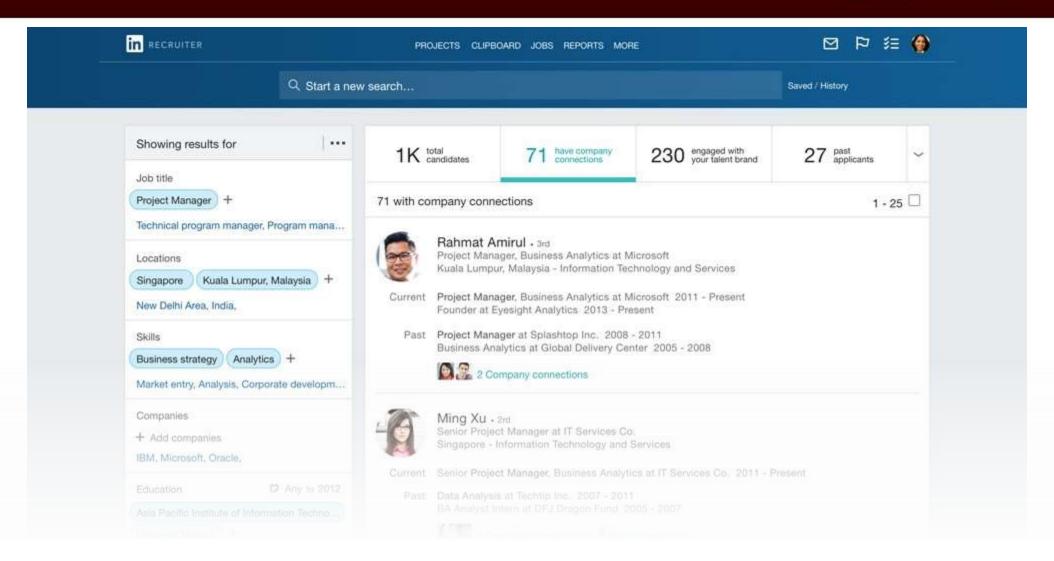
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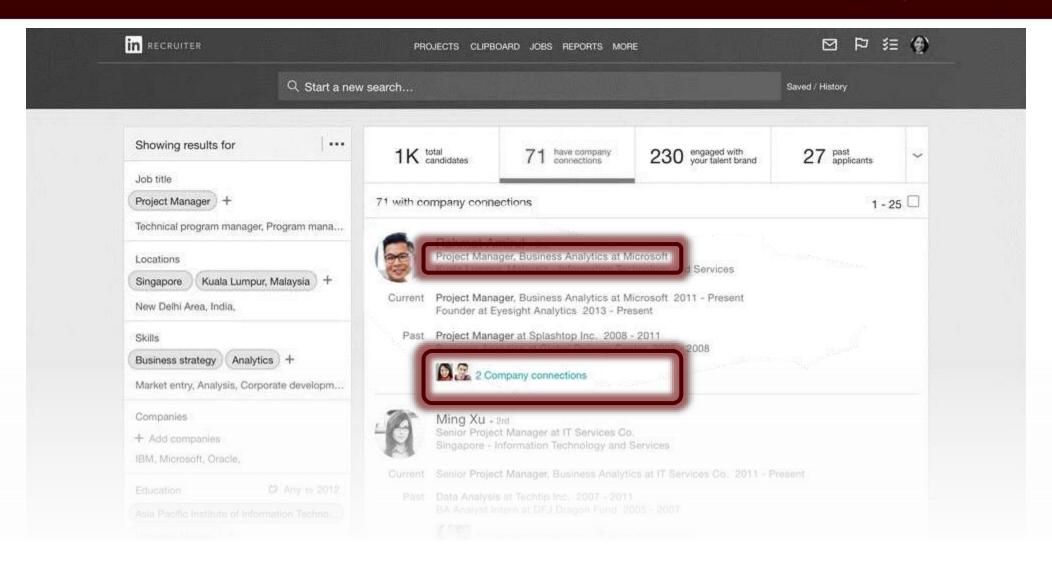
LinkedIn Recruiter





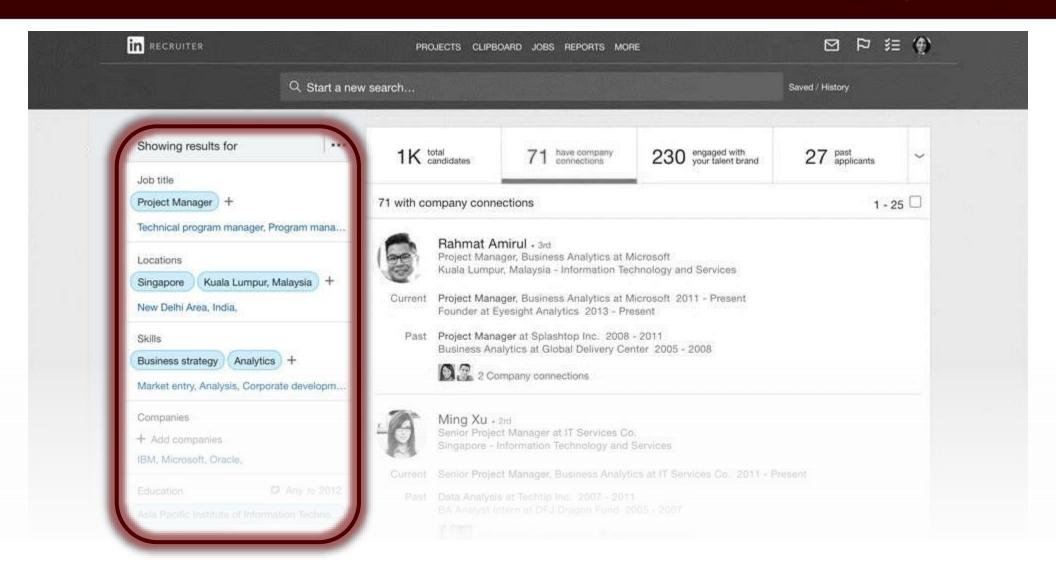
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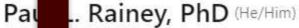


Make Yourself Easier to Discover



Career Development Professional

Advising & Programming | Operations | Employer Relations



Seni areer Coordinator for Graduate Student Career Services | High ducation Professional

Bryan, Kas, United States · Contact info

00+ connections

Open to

Add profile section

More



Texas A&M University



Finding Hiring Managers





The magic search key string:

"I'm Hiring" + "[Job Title]"

Coatings and surfaces chemist: https://lnkd.in/dGU6ydSh
Formulation scientist: https://lnkd.in/dyKABtkw

LinkedIn
Inkd.in • 1 min read

This link will take you to a page that's not on LinkedIn

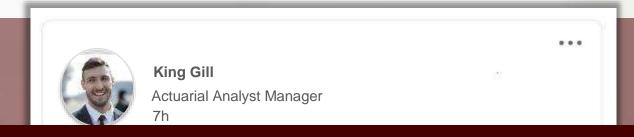
1 comment • 2 reposts

When applying to a role you found on LinkedIn, you can take the opportunity to message the Hiring Manager. Since you most likely don't have InMail capability with a free account, **send your message** with a connection request (300 character max).

You can:

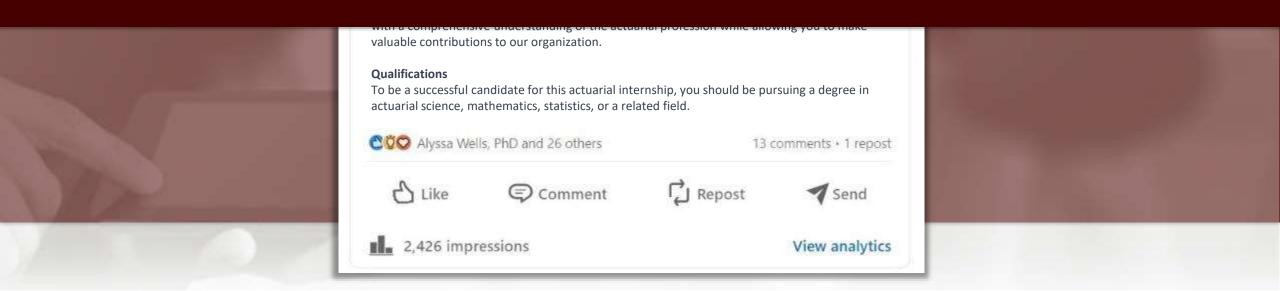
Send a message after you apply or even before you apply.

In either case, make sure your profile is up to date and best highlights your professional background!



Ask yourself:

'What are the most important aspects of the job and what would King want in a candidate?"



Hello King, I recently applied to the Actuarial Intern position you discussed on LinkedIn. I'm currently a statistics student at Texas A&M and have already taken Exam P and Exam FM so I believe I could hit the ground running in this role. Please feel free to reach out if you have any questions.

-Aggie Actuary

If After Applying

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If After Applying

Touches on key skills and shows understanding of role

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If After Applying

Touches on key skills and shows understanding of role

Focuses on solving hiring manager's need

Hi King, I'm interested in the Actuarial Intern position. With my research studying risk and applying statistical models to the concept, I believe I'm a great fit. To best communicate how I can fulfill the position's requirements, could you share what you see is the central, prioritized need of the role? I understand if you can't disclose info until I'm an active applicant. I look forward to applying.

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States how candidate would be a good fit for role

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States how candidate would be a good fit for role

Focuses on the hiring manager's needs

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If Before Applying

States how candidate would be a good fit for role

Focuses on the hiring manager's needs

Seeks additional information to tailor application materials

When to Use This Strategy

Strategy will have more traction with **small employers** (<50 employees) and/or for **niche roles**

Not recommended for **large employers** and **standard roles** (e.g., Data Scientist at Meta)

Even better if you already are connected and have built trust with hiring manager

Before Applying

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Ises on the hiring ager's needs

ks additional mation to tailor ication materials

application process

Hi King, I'm in research study concept, I beli fulfill the positive central, prodisclose infour applying.

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Summary



Internship Search is Iterative

Use Career Center resources to continually revisit your career trajectory and how you can best use you can best use your time to target positions and employers.

Understand the Role & Employer

Part of being successful is knowing what skills, experiences, abilities, and knowledge is needed for a specific career. Which of those do you have and which of those do you need to get?

Make a Plan

If there is a career you wish to enter, how do you get the needed skills and experiences? Will your coursework provide the needed experience? Are there opportunities on campus through organizations, programs, or research opportunities.



CONTACT US

- 209 Koldus Building
- 979.845.5139
- cc_advisor@tamu.edu
- careercenter.tamu.edu

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