

Employment opportunities for PhD's outside astronomy

Data Scientist

- InstaEDU (Chegg study)
- <http://womeninastronomy.blogspot.com/2014/06/career-profiles-astronomer-to-data.html>
- Data analysis and visualization
- Error analysis
- Programming (python, C, R)
- Writing and presentations
- Statistics

Data Scientist

- Starting base salary (for PhDs) in an entry data science position is between \$75k and \$125K
- glassdoor statistics (<https://www.glassdoor.com/index.htm>)

Average Base Pay

\$113,309 /yr

Additional Cash Compensation ?

Average **\$11,258**

Range **\$3,850 - \$26,084**



How much does a Data Scientist make?

The national average salary for a Data Scientist is \$113,309 in United States. Filter by location to see... [More](#)

Salaries for Related Job Titles

Big Data \$103K

Data Analyst \$62K

Intern data scientist \$34

Quantitative Analyst \$107K

Senior Data Scientist \$134K

Data Scientist

- Scicoder: <https://scicoder.org>
- Consulting internship:
<https://berc.berkeley.edu/programs/berc-innovative-solutions/>
- Insight Data Science Programs:
<https://insightfellows.com/data-science>

Data Scientist

- 45-50 hours / week
- Have to work in the weekends and at night at times

Video Game Programming

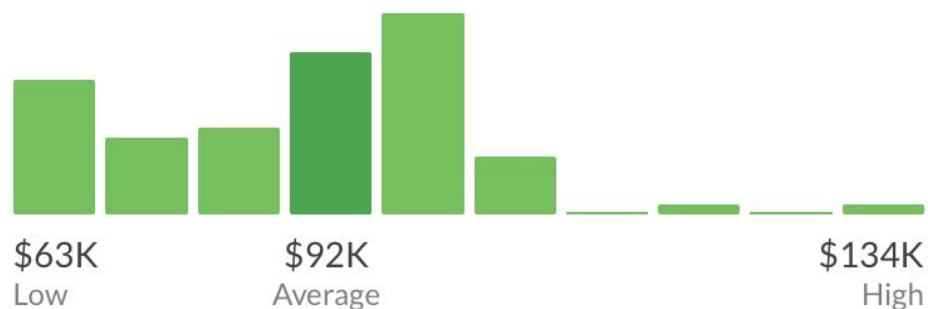
- Staff Software Engineer Architect : Disney Interactive Worlds
- <https://www.astrobetter.com/blog/2013/04/18/aas-career-profiles-interview-project-astronomer-to-software-engineer/>
- implement core software components for our online
- Lead small team of software engineers

Video Game Programming

- \$100k-150k / year

Average Base Pay

\$92,046 /yr



Additional Cash Compensation ?

Average **\$7,871**

Range **\$1,810 - \$20,486**

How much does a Architect (Software Engineer) make?

The national average salary for a Architect (Software Engineer) is \$92,046 in United States. Filter by... [More](#)

Salaries for Related Job Titles

No related titles found.

As we collect more salary reports, we will be able to display related salaries for this job title.

[Submit your salary](#)

Video Game Programming

- Computer programming
- Problem solving

- Additional training: certificate in C/C++

- 40-45 hours /week
- Rarely takes job home

Data Analyst in Defense Industry

- Eileen Chollet
- CNA, a nonprofit research and analysis organization located in Arlington, VA
- <https://www.astrobetter.com/blog/2013/11/07/career-profiles-astromer-to-research-analyst-in-the-defense-industry/>
- Work with members of US military, fly on military aircraft
- writing up analysis to answer questions the project sponsor has
- Observe war games, analyze naval tactics and techniques

Data Analyst in Defense Industry

• 100k

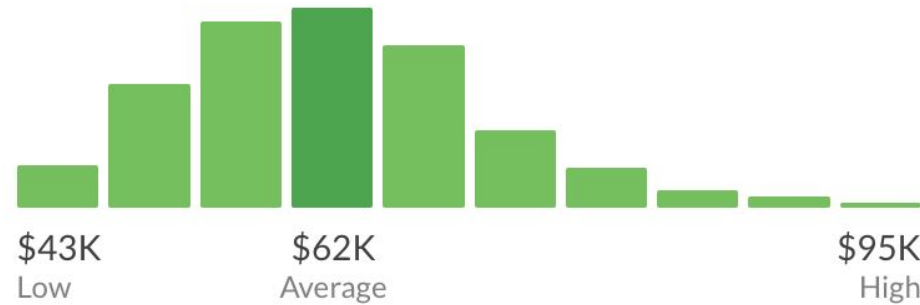
Average Base Pay

\$62,453 /yr

Additional Cash Compensation ?

Average **\$4,442**

Range **\$1,054 - \$12,759**



How much does a Data Analyst make?

The national average salary for a Data Analyst is \$62,453 in United States. Filter by location to see Data... [More](#)

Salaries for Related Job Titles

Analytics	\$71K
Data Scientist	\$113K
Entry Level Data Analyst	\$63K
Data Analyst Intern	\$69K
Data Mining	\$38K

Data Analyst in Defense Industry

- Public speaking, writing, and social skills
- Statistics

- 40-45 hours / week

Math Teacher

- Andy Cantrell
- <https://www.astrobetter.com/blog/2013/05/23/career-profiles-astro-nomer-to-math-teacher/>
- Mathematics teacher
- teach four classes a day, with the rest of the day spent either preparing materials for class or meeting with students or my colleagues
- Carney, Sandoe & Associates, a major recruitment agency for private schools

Math Teacher

Average Base Pay

\$43,846 /yr



Additional Cash Compensation [?](#)

Average **\$2,503**

Range **\$414 - \$5,562**

How much does a Math Teacher make?

The national average salary for a Math Teacher is \$43,846 in United States. Filter by location to see Math... [More](#)

Salaries for Related Job Titles

High School Math Teacher \$47K

Math and Science Teacher \$48K

Mathematics \$44K

Mathematics Teacher \$44K

Private School Teacher \$44K

Math Teacher

- 40-45 hours / week
- Required skills: math
- Very family friendly
- Very satisfied with work-life balance

Publisher

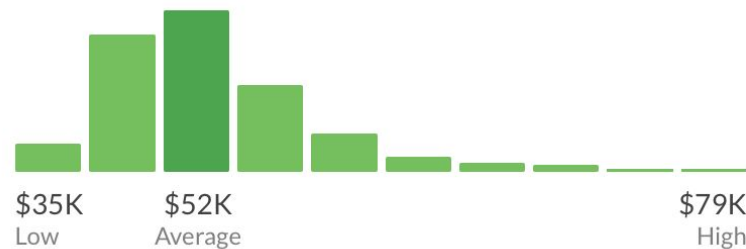
- Senior Editor for Nature
- <http://womeninastronomy.blogspot.com/2014/09/career-profiles-astronomer-to-senior.html>
- Evaluating newly submitted manuscripts
- deciding what to do with manuscripts on which I've received reports
- answering questions from authors and referees
- job allows me to travel extensively, all around the world.

Publisher

- 45-50 hours. Typically 7 in the office, and 2-3 at home, with an average of a couple of hours over the weekend (mostly responding to emails).
- Required: Broad knowledge of astronomy
- Six months intensive training in the London office of Nature followed by close supervision for about two years

Average Base Pay

\$52,107 /yr



Additional Cash Compensation (?)

Average \$2,801

Range \$675 - \$11,554

How much does a Editor make?

The national average salary for a Editor is \$52,107 in United States. Filter by location to see Editor... [More](#)

Salaries for Related Job Titles

Assistant Editor \$44K

Editing \$9

Editorial Assistant \$44K

Proofreader \$16

Associate Editor \$47K

Financial Analyst

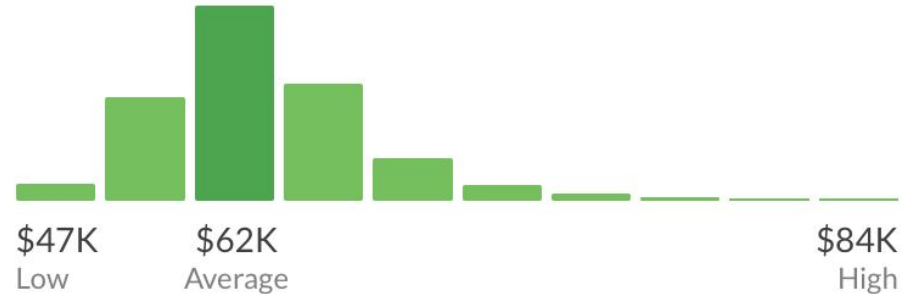
- Research and Production
- <http://womeninastronomy.blogspot.com/2014/07/career-profiles-astronomer-to-financial.html>
- Most of the day is spent making sure realtime (automated) trading goes smoothly and writing programs to achieve high-speed data processing.
- Acquired skills from PhD: Independence, computer modeling/simulations

Financial Analyst

- 40-45 hours. Almost no work is done at home.

Average Base Pay

\$61,971 /yr



Salaries for Related Job Titles

Credit Analyst	\$53K
Entry Level Financial Analyst	\$63K
Finance Analyst	\$62K
Investment Analyst	\$76K
Mutual Fund Analyst	\$69K

Additional Cash Compensation (?)

Average **\$5,449**

Range **\$1,606 - \$18,990**

How much does a Financial Analyst make?

The national average salary for a Financial Analyst is \$61,971 in United States. Filter by location to see... [More](#)

Patent Examiner

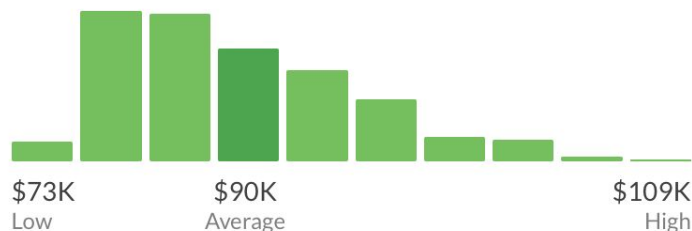
- US Patent and Trademark Office
- <https://www.astrobetter.com/blog/2013/09/19/career-profiles-astronomer-to-patent-examiner/>
- Need ability to learn cutting edge technology, write clearly and quickly, and research what is known in a field
- require you to constantly learn and apply new knowledge.
- Read and evaluate the claims of a new application in potentially a new subject matter
- understand the inventive concept from the specifications

Patent Examiner

Starting salaries at the USPTO are \$58-\$75k, but within 5 years you can be up to over \$110k, plus \$10-\$20k available in production related bonuses, with only non-competitive promotions (i.e. ones you have total control over, you do the work, they promote you)

Average Base Pay

\$89,861 /yr



Salaries for Related Job Titles

Patent Analyst	\$69K
Patent Attorney	\$61
Patent Agent	\$115K

Additional Cash Compensation (?)

Average	\$5,524
Range	\$1,065 - \$11,997

How much does a Patent Examiner make?
The national average salary for a Patent Examiner is \$89,861 in United States. Filter by location to see... [More](#)

- Federal government is a good employer of physicist
- 35-40 hours. Working overtime is not even legal at my paygrade. It's great. Tons of responsibility, but you leave your work at the door to the office.

Internship

- Very important!
- More convincing and provides more credentials for employer
- Barrier to entry is lower and companies will want to select from interns
- UVA resources: <https://career.virginia.edu/internships>
- Handshake: <https://career.virginia.edu/handshake>

UVA Career Fair

- career fair: <https://career.virginia.edu/career-fairs>