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# Software Development Intern (Available June 2025)

*New York, New York, United States*

New

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Category: Software Development

Location: Americas Region

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## A future with purpose

At Arup we're dedicated to sustainable development and to do socially useful work that has meaning. Our purpose, shared values and collaborative approach has set us apart for over 75 years, guiding how we shape a better world.

We solve the world's most complex problems and deliver what seems impossible, with curiosity and creativity. We're a thriving

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and growing organisation which offers you many possibilities to shape a better world, and your future.

*Senior Software Developer*

Americas Region

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## The opportunity

- Software development of web-based applications using JavaScript frameworks. You will work with development teams to build, maintain and use code stacks to deliver custom software solutions for our clients and teams, and digital products to complement our firm's current offerings.
- Engaging experts across the built environment. You will partner closely with industry-leading designers, engineers, and consultants to find opportunities for digital transformation. You will be responsible for communicating complex information and processes simply to empower informed decision making.
- Participation in research and development. You will work with our R&D champions to identify critical, emerging technologies and perform strategic research with an aim to develop the skills and capabilities needed to deploy them on projects.
- Providing insight from data. You will collaborate with advisors across a range of domains to identify and study data sets, producing visuals and other tools that empower Arup and its clients to make better decisions that impact our physical world.
- Aid in the development of product roadmaps. You will assist in the ideation of new projects and develop time and cost estimates for assessing product value.
- Communication through writing and presenting. Your role will involve the documentation of methods and outcomes. You will also represent the services and offerings of the Digital Insight team broadly throughout the firm, conveying the work we do to other teams through presentations.

## Is this role right for you?

We're looking for Interns who are curious and ready to evolve how you think and work. Our strength comes from how we respect, share, and connect our diverse experiences, perspectives, and ideas. At Arup, you belong to an extraordinary collective – in which we encourage individuality to thrive. If you can share your knowledge and ideas and encourage others to do the same; whilst having a desire to deliver excellent services for clients – we'd like to hear from you.

## **Qualifications**

### **Required:**

- Currently pursuing a bachelor's degree in Computer Science or similar technical field of study
- Experience with one or more of HTML, JavaScript, CSS, Python
- Interested and curious about the built environment (no experience necessary)
- Research oriented, critical thinker
- Strong in object-oriented design principles
- Experience using 3rd party APIs, frameworks and development kits
- Development and support of relational databases (SQL) and/or NoSQL technologies
- Familiarity with Agile Development methodologies
- Familiarity with relevant JavaScript frameworks, such as Angular 8 or React
- Familiarity with version control tools such as Git or SVN
- Excellent written and verbal communication skills
- Must not require sponsorship, now or in the future to be considered for this role

### **Preferred:**

- Currently pursuing a master's degree in computer science or similar technical field of study
- Web application development experience in JavaScript/Node.js/HTML/CSS

- Strong in Python
- Experience working in a development team environment using collaboration tools such as Atlassian
- Knowledge of statistics and data science
- Experience and knowledge in GIS, Spatial and 3D data
- Experience building web applications: web maps, websites, data visualization
- UX/UI research, design methods, and Design System integration.
- Experience with visualization techniques and libraries, e.g. D3.js
- Experience in DevOps processes such as docker and tools for continuous integration/continuous delivery
- Familiarity with cloud platforms such as AWS or Azure

### **Our teams notable projects**

- Aviation Insights – A group of apps that allow us to evaluate levels of demand against an operator's predictions (<https://www.arup.com/expertise/tools/aviation-insights>).
- Arup Solar – A collaborative design tool that analyses, in real time, a proposed building design, identifies how much sunlight it is likely to absorb, offers design options for shading and façade design (<https://www.arup.com/expertise/tools/solar>).
- As our reliance on renewable energy grows, it's vital to ensure our offshore wind farms are performing as intended. Arup has developed a suite of digital services that optimize windfarm design and operation (<https://www.arup.com/expertise/tools/digital-offshore-wind>).
- If buildings had a 'brain', monitoring their systems and responding in real time, how much more secure, comfortable and efficient could they become? We are answering that question with Neuron, using artificial intelligence to make our buildings, districts and cities healthier, more sustainable places to live and work

(<https://www.arup.com/expertise/services/digital/arup-neuron>).

- Open-sourced data and analysis to help NGO's, governments, and firms understand homelessness trends because of COVID-19 and resulting shutdowns. (<https://github.com/arup-group/social-data>)
- Charge4All - Scaling curbside EV charging infrastructure using a digital enabled and equitable approach (<https://www.arup.com/projects/charge4all> )
- Mobility Mosaic, a mobile application for collecting advanced travel data and informing urban, aviation and transport planning
- Arup Virtual Engage (<https://www.arup.com/expertise/services/digital/virtual-engage>)
- Arup Inspect (<https://www.arup.com/our-firm/arup-inspect>)
- Arup Neuron (<https://www.arup.com/projects/neuron>)

## **What we offer you**

At Arup, we care about each member's success, so we can grow together.

Guided by our values, we provide an attractive total reward package that recognizes the contribution of each of our members to our shared success. As well as competitive, fair and equitable pay, we offer a career in which all of our members can belong, grow and thrive – through benefits that support health and wellbeing, a wide range of learning opportunities and many possibilities to have an impact through the work they do.

We are owned in trust on behalf of our members, giving us the freedom, with personal responsibility, to set our own direction and choose work that aligns with our purpose and adds to Arup's legacy. Our members collaborate on ambitious projects to deliver remarkable outcomes for our clients and communities. Profit Share is a key part of our reward, enabling permanent members to share in the results of our collective efforts.

When you start your career with Arup, you will have the opportunity to deliver high quality valuable work for our clients. Our inclusive and diverse work environment will allow you to thrive and build your technical, project management and business development skills needed to be successful in our firm.

**New York City Hiring Range** - The good faith base salary hiring range for this job if performed in New York City is \$26 to \$37 per hour. **This range is commensurate with experience, educational background, and skill level.** Benefits are not included in the base salary. Please note hiring ranges for candidates performing work outside of New York City, NY will differ.

**Chicago Hiring Range** - The good faith base salary hiring range for this job if performed in Chicago, IL is \$21 to \$32 per hour. **This range is commensurate with experience, educational background, and skill level.** Benefits are not included in the base salary. Please note hiring ranges for candidates performing work outside of Chicago, IL will differ.

**Flexible Working** - We believe that flexible arrangements create a more inclusive way of working that supports our diversity and the wellbeing of our people. Options for alternative schedules and the ability to work outside of the office for a portion of your workweek are available.

Candidate must be eligible to work in the United States without the need for employer sponsored work authorization now or in the future

## Next Steps

We will be reviewing our candidates for this position on a rolling basis. Once you've submitted your application, we'll invite you to showcase your skills through a pre-recorded video interview. After reviewing your submission, a member of our team will get in touch with you to discuss the next steps.

**Different people, shared values**

Arup is an equal opportunity employer that actively promotes and nurtures a diverse and inclusive workforce. We welcome applications from individuals of all backgrounds, regardless of age (within legal limits), gender identity or expression, marital status, disability, neurotype or mental health, race or ethnicity, faith or belief, sexual orientation, socioeconomic background, and whether you're pregnant or on family leave. We are an open environment that embraces diverse experiences, perspectives, and ideas – this drives our excellence.

Guided by our values and alignment with the UN Sustainable Development Goals, we create and contribute to equitable spaces and systems, while cultivating a sense of belonging for all. Our internal employee networks support our inclusive culture: from race, ethnicity and cross-cultural working to gender equity and LGBTQ+ and disability inclusion – we aim to create a space for you to express yourself and make a positive difference. Discover more about life at Arup at [www.arup.com/careers/your-life-at-arup](http://www.arup.com/careers/your-life-at-arup).

**Arup is an equal opportunity employer.** All qualified applicants will receive consideration without regard to race, colour, religion, sex, sexual orientation, gender identity, national origin, protected veteran status, spouse of protected veteran, or disability.

**Stay safe online.** Recruitment fraud is on the rise, and Arup's name, logo, and branding have been used in fraudulent job advertisements. Arup will never ask for bank information as part of our recruitment process.

#goarup

#LI-TA1

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