

At AITSL, we believe every Australian child deserves a quality education. This relies on quality teaching and effective school leadership. We drive effective and inspiring teaching and school leadership, to improve student learning in the classroom.

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<b>Position Title</b>	Data Scientist - ATWD
<b>Business Unit</b>	Evidence and Impact
<b>Leader Title</b>	Principal, ATWD
<b>Employment status</b>	Full time to Maximum term
<b>Date</b>	23 December 2021

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### About this role

The Data Scientist role sits within the Australian Teacher Workforce Data (ATWD) team of the Evidence and Impact area at AITSL and will provide data programming, data quality and integrity analysis and statistical analysis, for the development of reports and publications for the Australian Teacher Workforce Data (ATWD) initiative. Your work will underpin data analysis, data interpretation and knowledge translation for the project.

The ATWD is a linkage project that has enabled a national de-identified teaching workforce database for the analysis of supply trends and characteristics of the Australian teaching workforce. As the ATWD is a new source of longitudinal national information it is expected that interest in the outputs and analysis will be high. Consequently, the data analyst must be curious, motivated by and have expertise in obtaining robust insights from data, skilled in written communication of insights and data visualisation, and have honed stakeholder and time management skills.

### What you will be doing

As the data scientist, you will:

- Analyse longitudinal panel data to provide in depth insight into teacher workforce trends and supply pipeline.
  - Evaluate data quality and identify opportunities for data improvement to ensure the viability of the ATWD to address policy questions.
  - Develop new data transformations to be put into production.
  - Contribute to the delivery of the data access and reporting strategy through the preparation of interactive visualisations, statistical output and data tables.
  - Produce high-quality documentation of your work.
  - Provide expert advice to users of the ATWD and scope data access proposals in consultation with the Senior Lead Data Scientist and the
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Principal – ATWD providing insight into their viability and feasibility, as required.

- Work with the digital and reporting team to ensure knowledge translation is accurate and appropriate for a range of audiences including Boards, Technical Working group, senior management, states and jurisdictions, teachers and schools.
- Project manage your responsibilities to prioritise work flows to meet project timelines and milestones.
- Any other duties related to the provision of expert data analytical services to stakeholders as directed by the manager.

### What we are looking for

We are looking for a data analyst with at least 2 years' experience working as a Data Scientist, Data Analyst or in another data intensive role.

The successful candidate will have:

- Strong Python programming skills; additional experience working with Stata or R would be highly regarded.
- A track record of producing data-driven policy insights in a government or non-government context, or experience working in the education sector.
- Expertise in statistical analysis; with experience working with models suited to the analysis of panel and time-series data being highly regarded.
- Experience with machine learning techniques and predictive modelling.
- A demonstrated capacity to perform data manipulation and harmonisation to prepare data for analysis.
- The ability to explain technical concepts to non-technical audiences.

### About AITSL

AITSL is a Commonwealth company and not-for-profit based in Melbourne. We are funded by the Australian Government. The Australian Government is the sole member of the company, represented by the Minister for Education

As a national body, AITSL was established to promote excellence in the profession of teaching and school leadership. We work with the education community to improve student learning by:

- defining and maintaining standards for initial teacher education, teachers and principals,
- leading and influencing improvement and reform in initial teacher education, teaching and school leadership,
- supporting, recognising and extending high quality, high impact professional practice.

We are governed by a constitution and an independent Board of Directors who bring diverse professional experiences and expertise in educational practice, and research to the work of the company. Visit: [www.aitsl.edu.au](http://www.aitsl.edu.au) for more information about AITSL.



**Up for the challenge**



**Embrace change**



**Working together**



**Being respectful**

***AITSL is an equal opportunity employer and is committed to building a culturally diverse organisation. We strongly welcome and encourage interest from Aboriginal and Torres Strait Islanders and people from culturally diverse backgrounds. We also strongly welcome and encourage people with disabilities to apply for roles with AITSL.***

We operate under our own constitution and are governed by an independent Board of Directors who bring diverse professional experiences and expertise in educational practice, research, and provision to the work of the Institute. Visit: [www.aitsl.edu.au](http://www.aitsl.edu.au) for more information about AITSL.

## How to apply

Applications must be submitted via seek and include a resume and cover addressing the key requirements of the position.

### **Applications close COB 19 January 2022**

The shortlisting process will commence immediately so send in your application as soon as possible.

Please direct any queries to [employment@aitsl.edu.au](mailto:employment@aitsl.edu.au)