



Make working for
The City work for you.



Planning Engineer, River Engineering

If you are committed to public service, enjoy collaborating with others, share our values and have a desire to learn and grow, join The City of Calgary. City employees deliver the services, run the programs and operate the facilities which make a difference in our community. We support work-life balance, promote physical and psychological safety, and offer competitive wages, pensions, and benefits. Together we make Calgary a great place to make a living, a great place to make a life.

The City is committed to fostering a respectful, inclusive and equitable workplace which is representative of the community we serve. We welcome those who have demonstrated a commitment to upholding the values of equity, diversity, inclusion, anti-racism and reconciliation. Applications are encouraged from members of groups that are historically disadvantaged and underrepresented. Accommodations are available during the hiring process, upon request.

As a Planning Engineer on the River Engineering team, you will use and develop your hydrotechnical and civil skills by participating in a wide variety of projects which support river flood resilience, potable water supply, dam safety, asset management, stormwater, environmental sustainability, and emergency management. Primary duties include:

- Support inspection and management of hydraulic structures through technical work on river asset management and dam safety programs.
- Provide input on the design of hard and green infrastructure near Calgary's rivers and creeks, including bridges, outfalls, intakes, flood barriers, bioengineering and stream restoration.
- Conduct applied hydrology analyses to support flood response planning, mapping, and infrastructure design, such as flood frequency analysis and flow duration curves.
- Develop, calibrate and use hydrologic and hydraulic models.
- Apply understanding of regulatory frameworks to address provincial, federal, and municipal requirements near rivers and creeks, including permitting, restrictions, environmental protection, and dam safety.
- Review and assess development applications and land use development policy in flood hazard areas, with the aim of building resilience with respect to flooding, groundwater, riparian and morphologic risks, and climate change.
- Perform watershed and river flow monitoring and forecasting, including participation in the River Forecaster-on-Duty rotation to monitor conditions for flood, drought and ice jam risks, annual spring flood response preparations, and emergency response activities as required.
- Support the development, roll-out and maintenance of a digital flood emergency reference and action tracking tool.
- Collaborate with other City teams, Calgarians, the insurance industry, academics, and others to deliver programs and build Calgary's resilience.

Qualifications

- A degree in Civil, Water Resources, Environmental Engineering, or a related Engineering field.
- Current licensure as a Professional Engineer with the Association of Professional Engineers and Geoscientists of Alberta (APEGA) complete with practicing status OR licensure and practicing status by the first day of work. [Click here for more details.](#)
- A valid Class 5 Driver's License (or provincial equivalent) and access to a personal vehicle for business use OR the ability to obtain a City of Calgary [operator's permit](#) is required.
- Experience in hydrologic analyses, hydraulic modelling, flood mapping, river infrastructure design, dam safety, and asset management is essential.
- Experience using hydrologic and hydraulic modelling software (such as HEC-RAS, HEC-HMS, Raven, FEWS, and/or SWMM/XPSWMM) is required.
- A graduate degree in Water Resources, Hydrology, Climate Science, Meteorology, or related field is an asset.
- Experience with GIS, ArcMap, and ArcGISPro is an asset.
- Strong initiative to tackle new projects and proven track record of achieving project results.
- Strong communication and collaboration skills will be critical for success in this role.

Pre-employment Requirements

- Successful applicants must provide proof of qualifications.

Note: Please note all exempt positions at The City are undergoing a compensation review. This means the union jurisdiction and/or salary range listed here may change. [Tell me more.](#)

Union: Exempt
Position Type: 1 Permanent
Compensation: Engineer Level D \$78,594 – 117,008 per annum
Hours of work: Standard 35 hour work week
Audience: Internal/External

Business Unit: Climate and Environment
Location: 625 25 Avenue SE
Days of Work: This position typically works a 5 day work week, earning 1 day off in each 3 week cycle.
Apply By: January 23, 2025
Job ID #: 311114

Apply online at www.calgary.ca/careers