



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](https://www.calgary.ca). 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.

The River Engineering Team works within The City's Climate and Environment Business Unit, in Planning & Development Services. As a Planning Engineer who is the climate- and hydrology-focused specialist with the team, you will use and develop your climate science and hydrotechnical skills by leading and participating in a wide variety of projects which support river flood resilience, potable water supply, wastewater and stormwater lines of service, as well as climate adaptation and environmental performance objectives. Work within the role will have an emphasis on how our changing climate is affecting our watersheds to inform watershed planning, river engineering, water services and related operations, infrastructure design, and planning policies. Primary duties include:

- Lead studies and data review to refine river and watershed climate projections, including liaising and/or managing projects with researchers and/or consultants on current data, modelling and methodologies applicable for our region to determine potential changes to the seasonality, magnitude and frequencies of low and high flows in Calgary's rivers and creeks.
- Build capacity of the River Engineering team and other City staff on future flow projections, climate science and available data.
- Create and share study findings and key messages with city staff, project teams and the public.
- Support ongoing operational and planning work with seasonal hydrologic analyses and future climate scenarios.
- Lead or support projects on flood damage modelling, watershed metrics and reporting, creek hydrology and flood mapping, infrastructure design, dam safety and asset management.
- Participate in the River Forecaster-on-Duty rotation to monitor watershed and river conditions for flood, drought and ice jam risks, and participate in annual flood response preparations and emergency planning and response activities.
- Support development reviews and bylaw/policy updates, providing guidance on how The City can create resilience to future climate and flood impacts through planning policies and development regulation.
- Collaborate with other City teams engaging with Calgarians, the insurance industry, and others, to deliver potential risk reduction and resilience programs.

Qualifications

- A degree in Civil, Water Resources, Environmental Engineering or a related Engineering field, registration as a Professional Engineer in Canada, and current licensure as a Professional Engineer with the Association of Professional Engineers and Geoscientists of Alberta (APEGA) or licensure by the first day of work.
- At least 4 years experience as a Professional Engineer in climate science and hydrologic modelling.
- A valid Class 5 Driver's License (or provincial equivalency) with no more than 6 demerits OR a Class 5 Graduated Driver's License (GDL) with no more than 4 demerits, and no current charges or suspension pending is required.
- A master's degree in a water resources, hydrology, climate science, meteorology, or related field is considered an asset.
- Experience in hydraulic modelling, river forecasting, or flood management experience will be considered an asset.
- Experience using hydrologic and hydraulic modelling software including HEC-RAS, HEC-HMS, Raven, FEWS, SWMM/XPSWMM, GIS/ArcMap/ArcGISPro, and Microsoft Excel is an asset.
- Project management training and experience are assets.
- Strong communication and collaboration skills will be critical for success in this role.

Pre-employment Requirements

- Successful applicants must provide proof of qualifications.

Union: Exempt
Position Type: 1 Permanent
Compensation: Engineer Level E \$88,706 – 133,937 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 works a 5 day work week earning 1 day off in a 3 week cycle.
Apply By: September 27, 2023
Job ID #: 308259

Apply online at www.calgary.ca/careers