



The Hong Kong Applied Science and Technology Research Institute (ASTRI) was founded by the Government of the Hong Kong Special Administrative Region in 2000 with the mission of enhancing Hong Kong's competitiveness through applied research. ASTRI's core R&D competence in various areas is grouped under five Technology Divisions: AI and Big Data Analytics; Communications; Cybersecurity, Cryptography and Trusted Technologies; Integrated Circuits and Systems; and IoT and Sensors. It is applied across five core areas which are Smart City, Financial Technologies, Intelligent Manufacturing, Digital Health, and Application Specific Integrated Circuits.

Over the years, ASTRI has nurtured a pool of research, I&T talents and received numerous international awards for its pioneering innovations as well as outstanding business and community contributions. To date, ASTRI has transferred over 800 technologies to the industries and been granted more than 900 patents in the Mainland, the US, and other countries.

To support our constant endeavour to position Hong Kong as a world-class smart city and an international hub of innovation and technology, we are seeking qualified professionals to fill the following position(s):

Openings: 4

Title	5G / 6G Protocol and Application Software Design Principal Engineer / Lead Engineer / Engineer
Job Ref No.	CTO/COM/04 (Please quote this Job Ref No. with your application.)

### Job Responsibilities

- R&D in 5G/6G radio access network software and intelligent application software, with objectives to commercialize and demonstrate market leading performance
- Design and develop a 5G/6G mobile intelligent systems including
  - MAC/RRM/SON algorithms
  - Mobile intelligent algorithms with remote sensors such as camera and radar
  - System level simulation and theoretical analysis, and
  - Standard compliance verification
- Develop control and data planes of protocol stack for 5G/6G base stations
- End-to-end system integration, interoperability testing, verifications, performance testing and tuning on 5G/6G base stations
- Work with hardware, software and system engineers and support customers for commercialization

### Requirement

- Ph.D. or Master's degree holder in Computer Science, Electronic Engineering, Telecommunications with a minimum of 3 years of related experience
- Knowledge of computer networks and protocols; programming knowledge in C/C++, Python or Shell script; and experiences in development on Linux preferred
- Knowledge of 4G/5G standards, system architecture (SA) and procedures, and/or experience on 4G/5G end-to-end testing or field trial preferred
- Solid knowledge on signal processing, image processing, information theory, numerical analysis, stochastic process and machine learning, and/or experience on Robot Operating System (ROS), localization and Autonomous Guided Vehicle (AGV) control system a plus
- Proficiency in written and spoken English required, Cantonese and/or Putonghua a plus
- Lives ASTRI values

## Application

The appointment will be on renewable contract terms with a competitive salary and performance-linked variable pay. Fringe benefits include paid leave, medical and dental benefits, insurance coverage and contribution to MPF. The incumbent will normally work a five-day week.

Interested candidates, please send an application (quoting Ref. No.) with a detailed resume, current and expected salary to Talent Acquisition via email to **careers@astri.org**. The resume should **not** include any sensitive personal information such as HKID or passport number, photo, etc.

Position offer is subject to the applicant's experience and academic qualification. The application will be open until the position is filled. Only short-listed candidates will be notified. ASTRI reserves the right not to fill the position.

ASTRI is an Equal Opportunities Employer. Personal data provided by job applicants will be used exclusively for recruitment only. For details, please refer to **ASTRI Privacy Policy Statement**, in particular section 9.