

- Job Title** : Analyst Programmer (A1/F2/F3) (Non-Civil Service Post)
- Salary** : \$43,340 per month
- Entry Requirements** : Candidates should :
- (1) have a Bachelor's degree in computer science, information system or any other computer related subject, from a university in Hong Kong, or equivalent;
  - (2) have met the language proficiency requirements of Level 2 or above in Chinese Language and English Language in the HKDSEE or HKCEE, or equivalent <sup>Note</sup>;  
[<sup>Note</sup> "Grade E" in Chinese Language and English Language (Syllabus B) in the HKCEE before 2007 is accepted administratively as comparable to "Level 2" in Chinese Language and English Language in the 2007 HKCEE and henceforth.]
  - (3) have at least 3 years' experience in the field of information technology, of which at least 1 year must be in similar nature of the present post; and

**For Vacancy (1) (A1) :**

- be proficient in iPadOS\* and/or Android application interface design and program development. Good knowledge in developing software in macOS, UNIX/Linux and Windows environment with SWIFT, React Native, Java (J2SE), C/C++ and Python; developing database applications using SQL language; and developing web-based application including HTML and XML; and
- have knowledge in the following technologies will be an advantage:  
Database: MongoDB, Oracle Database and MySQL;  
Scripting languages/Programming languages: JavaScript, Perl, PHP, UNIX shell script, PL/SQL and Fortran; and  
Technologies/Platforms: JSP, Node.js, J2EE, Leaflet, Docker, GeoServer and AIX operating system.

*\* Preference will be given to candidates who are proficient in iPad application development*

**For Vacancy (2) (F2) :**

- be proficient in development with HTML, CSS, JavaScript, Node.js, Java, PHP, MySQL or equivalent. Other technical knowledge and experience in Android app and web application development, and source control management will be an advantage.

**For Vacancy (3) (F3) :**

- have good knowledge and proficiency in developing software with Python, JavaScript and Java (J2SE), web programming and GIS applications (web-GIS) on Linux/UNIX and Windows environments; Linux/UNIX shell scripting; database and MySQL (or SQL);

- have knowledge and experience in the following technologies will be an advantage:
  - (a) development of AI/ML applications using Python data science tools/libraries (e.g. NumPy, Matplotlib, Pandas, PyTorch, Scikit-learn, etc); or
  - (b) programming/scripting languages: C/C++, PHP and R language; or
  - (c) database: Oracle Database; or
  - (d) Linux system administration; or
  - (e) parallelization of software applications; or
  - (f) deployment of software applications using virtual machine (e.g. Linux KVM), configuration management tools (e.g. Ansible) and/or docker appliances; using Git (or CVS) in version control of source codes; and
- Technical Requirement – Mandatory
  - JAV (12 months)
  - SQL (12 months)
  - GIS (12 months)
  - ULS (6 months)
  - HT5 (6 months)
  - LIN (6 months)
  - WEB (6 months)
- Technical Requirement – Optional
  - PHP (12 months)
  - JAP (12 months)
- Non-Technical Requirement – Mandatory Specify No More Than Five Skill Code and Minimum Experience Required (in months).

**Duties**

: **For Vacancy (1) (A1) :**

Responsible for interface design, programming development, and technical testing of computer programs, web pages, and mobile applications; assist in formulating computer systems, design reports, and specifications.

**For Vacancy (2) (F2) :**

- (1) Implement new features and enhancements for the web-based client software for dissemination of weather and forecast bulletins;
- (2) Enhance the web-based supporting tools to facilitate the issuance, monitoring and dissemination of bulletins;
- (3) Enhance the HKO mobile apps on Android platform and ensure the compatibility of the apps with the latest Android OS and new devices;
- (4) Assist in carrying out functionality and reliability test of the enhancements;
- (5) Assist in conducting system audit on the enhancements; and
- (6) Provide system documentations and handover to HKO staff.

*(Note: He/she may be required to work outside normal office hours.)*

### **For Vacancy (3) (F3) :**

To provide software programming and related IT supports in the development and production activities on computer weather model forecast application systems, including:

- (1) enhancement of numerical weather prediction (NWP) model products on the Automatic Regional Weather Forecast (ARWF) web portal (<https://maps.weather.gov.hk/ocf/>), including provision of real-time products and support services to the public and specific users (e.g. B/Ds and public utilities);
- (2) enhancement of the experimental meteorological data processing and forecast products of urban-scale weather monitoring network. Provide programming supports to develop and verify real-time forecast products on ARWF and trial web portals;
- (3) provision of programming support to improve NWP model post-processing systems for high-impact weather prediction;
- (4) enhancement of verification systems of model post-processing products, including their web-based display and databases;
- (5) enhancement of IT software facilities for code version control (e.g. Git-based platform) and deployment of model post-processing systems on different computer servers running Linux/UNIX, as well as on cloud platform;
- (6) provision of programming support in research development activities, on model post-processing techniques and verification;
- (7) documentation on system design and software on Git-based platform; and
- (8) provision of programming technical support, conduct training and related handover activities to HKO (F3) staff.

**Terms of Appointment** : Successful candidates will be appointed on non-civil service contract terms for one year.

**Fringe Benefits** : A gratuity may be granted upon satisfactory completion of the contract with consistently high standard of performance and conduct. Such gratuity, if granted, plus any contribution made by the Government to a Mandatory Provident Fund (MPF) scheme in respect of the appointee as required by the MPF Schemes Ordinance, will be equal to 15% of the total basic salary drawn during the contract period.

**General Notes** : (1) Candidates must be permanent residents of the Hong Kong Special Administrative Region at the time of appointment unless specified otherwise.

(2) As an Equal Opportunities Employer, the Government is committed to eliminating discrimination in employment. The vacancy advertised is open to all applicants meeting the basic entry requirement irrespective of their disability, sex, marital status, pregnancy, age, family status, sexual orientation and race.

- (3) Non-civil service vacancies are not posts on the civil service establishment. Candidates appointed are not on civil service terms of appointment and conditions of service. Candidates appointed are not civil servants and will not be eligible for posting, promotion or transfer to any posts in the Civil Service.
- (4) The entry pay, terms of appointment and conditions of service to be offered are subject to the provisions prevailing at the time the offer of appointment is made.
- (5) Where a large number of candidates meet the specified entry requirements, the recruiting department may devise shortlisting criteria to select the better qualified candidates for further processing. In these circumstances, only shortlisted candidates will be invited to attend recruitment examination and/or interview.
- (6) It is Government policy to place people with a disability in appropriate jobs wherever possible. If a disabled candidate meets the entry requirements, he/she will be invited to attend the selection interview/written examination without being subject to any further shortlisting. Applicants who have declared disabilities found suitable for appointment may be given an appropriate degree of preference over other applicants whose suitability for appointment is considered comparable to that of the former. The Government policy and other related measures on employment of persons with disabilities are set out in the booklet “Employ People Based on Their Abilities – Application for Government Jobs by Persons with Disabilities” which is available for reference on the Civil Service Bureau’s website at <http://www.csb.gov.hk> under “Administration of the Civil Service – Appointments”.
- (7) Holders of academic qualifications other than those obtained from Hong Kong institutions/Hong Kong Examinations and Assessment Authority may also apply but their qualifications will be subject to assessments on equivalence with the required entry qualifications. They should submit copies of their official transcripts and certificates by mail to the below contact address.

### **How to apply**

- : Application Forms [G.F. 340 (Rev. 7/2023)] are obtainable from any Public Enquiry Service Centres of District Offices, Home Affairs Department or any Job Centres of the Employment Services Division, Labour Department. The said form can also be downloaded from the Civil Service Bureau's website (<http://www.csb.gov.hk>).

Applications submitted in person or by post should reach the below contact address together with copies of supporting documents listed in the entry requirement on or before **29 April 2024**.

Please specify “Application for the post of Analyst Programmer (A1/F2/F3)” on the envelope. Applicants should state clearly on the application form the vacancy they are applying for. If there is no indication, it is assumed that the applicants would apply for all posts.

To avoid delayed or unsuccessful delivery of applications by post, please ensure that the correct address is clearly printed or written on the envelope and sufficient postage has been affixed before posting. Mail items bearing insufficient postage will not be delivered to this Department and will be returned to the sender or disposed of by the Hongkong Post, where appropriate. Applicants will bear any consequences arising from paying insufficient postage. Applications submitted by fax or e-mail will not be accepted.

Those who are not invited for interview may assume that their applications are unsuccessful.

- Contact Address** : Personnel Registry, Hong Kong Observatory, 134A Nathan Road, Tsim Sha Tsui, Kowloon
- Enquiry Telephone** : 2926 8512
- Enquiry Email** : [personnel@hko.gov.hk](mailto:personnel@hko.gov.hk)