Detailed Posting

Research Group: [EvoIntel Lab], [LUHK-SZU]

Supervisors: Two Assistant Professors + One Associate Professor

Research Areas:

1. Data-driven Evolutionary Computation

2. Bayesian Networks and Monitoring

3. Multimodal Scientific Summarization and Cross-modality Fusion

Position Overview

We are recruiting **undergraduate Research Assistant(s)** to join our research group. Selected students will work closely with faculty members and research team members on one of the research directions listed above. The RA will support literature review, implementation, experimentation, and research reporting. Outstanding RAs may have opportunities for recommendation letters and academic acknowledgments/co-authorship in line with standard authorship guidelines.

Research Directions (choose one or more)

A. Data-driven Evolutionary Computation
Examples: surrogate-assisted evolutionary algorithms, learning-enhanced operators, expensive optimization, constraint handling, benchmarking and reproducible experiments.

B. Bayesian Networks and Monitoring
Examples: Bayesian network modeling, probabilistic inference, anomaly detection, online monitoring, uncertainty quantification, time-series / sensor data analytics.

C. Multimodal Scientific Summarization & Cross-modality Fusion
Examples: scientific document understanding, multimodal summarization (text–figure–table), cross-modal representation learning, retrieval and generation, evaluation protocols.

Responsibilities

- Conduct literature search and write structured summaries (weekly/biweekly)

- Implement algorithms and build experimental pipelines (Python preferred;

Matlab/C++ optional)

- Run experiments, analyze results, and prepare figures/tables

- Maintain clean, reproducible research artifacts (Git, documentation)

- Assist with writing technical reports, slides, or manuscript revisions (when needed)

Requirements

- Current undergraduate student (Year 2+ preferred) in CS/EE/Math/Statistics or related fields

- Basic programming ability (Python preferred) and willingness to learn research tools

- Strong responsibility, communication, and ability to meet milestones

- Curiosity about research and good reading/writing habits

Preferred (Nice to Have)

- Experience with optimization / machine learning / probabilistic modeling / NLP

- Familiarity with Git/GitHub, LaTeX, Linux, or basic deep learning frameworks (PyTorch/TensorFlow)

- Prior project, competition, or research experience

Time, Duration, and Compensation

- **Duration:** [3–6 months] (renewable based on performance)

- **Mode:** [On-site/Remote/Hybrid]

- **Compensation: Up to 2,000 CNY/month**, based on workload and deliverables

- **Bonus: Up to 5,000 CNY** awarded if the RA makes **a substantial, verifiable contribution** to a project that results in **a top-tier publication**, in accordance with group policy

What We Offer

- Hands-on mentorship and structured research training

- Opportunity to work on publishable research problems

- Recommendation letter for strong performance

- Potential acknowledgment/co-authorship based on contribution and venue policies

- Independent access to a high-performance workstation equipped with an AMD Threadripper PRO 9995WX (96-core CPU) and an NVIDIA RTX 6000 Pro (96GB VRAM GPU) or an NVIDIA A800 (80GB VRAM GPU) for experiments and model training.

How to Apply

Please email jingyuji@szu.edu.cn and cc **im@jijingyu.com** with the subject:

"UG RA Application – Area(A/B/C) – Name – University/Year"

Include:

1. CV, 2) short statement (200–400 words) describing interests + relevant skills + preferred area(s),

2. availability (start date + hours/week),

3. transcript (optional),

4. GitHub/code sample/project report (optional).