

Jaemin Song

Environmental engineering in drinking water treatment

How to approach problems

1. Emphasis on **quantitative analysis** of a system (efficiency, effectiveness and so on)
 - ➡ Quantifying issues (less concern for social issue like equity)
2. Heavy dependence on **past system** (Legacy)
 - ➡ Taking a long time in putting creative or brand new technology into practice
3. **Standards** as a key component to consider
 - ➡ Hard to restore public confidence once some accidents or violations have been announced

Good models and desired expertise

1. **Resilience, robustness and flexibility**
2. Capability to **visually prove or explain** current phenomena in a simple way (through experiments or computer modeling)
3. Use of **proper assumptions**
4. **Good balance** between technology and social science