

# Job Analysis Form

Alternate Format Available



King County

## SHORT FORM FOR PRE-EMPLOYMENT PHYSICALS

PATIENT NAME: \_\_\_\_\_

JOB TITLE: Engineer II (Hydrology)

DEPARTMENT: Natural Resources, WLRD, Science

WORK SCHEDULE: 40/week

JOB DESCRIPTION: Acts as a part of a team of water quantity and quality modelers in the Water and Land Resource Division's Science and Data Management Section in support of watershed, groundwater, marine, lake, and river management, ESA response, and NPDES compliance. This position will participate in the development of watershed hydrologic and water quality models to meet the ongoing needs of the County related to the protection, conservation, and restoration of land and aquatic resources. The incumbent will perform cooperative field and computer simulation studies of emerging watershed water quality and quantity issues. These studies will involve surface and groundwater quality and quantity over a range of spatial scales, and may include coordination with other entities involved in applied research in these areas.

WORK ENVIRONMENT: Field with some office.

ESSENTIAL FUNCTIONS: Conduct studies and analyses of watershed hydrology, stream flow regime, hydro-ecology, and water quality. Develop watershed, river and lake models and run model simulations. Manage, scope, schedule, budget and direct tasks in consultant-staffed watershed modeling and monitoring projects. Participate in multi-disciplinary project teams related to watershed hydrology, water quality, hydraulics, monitoring, and modeling. Identify, obtain, analyze and evaluate hydrologic and other environmental data in support of modeling and risk assessment efforts. Coordinate modeling activities with County staff, consultants, university staff, and local, state, federal and tribal agencies and organizations. Provide technical quality assurance review of models and technical reports. Participate in the selection and implementation of emerging technologies for data management, water modeling techniques, and GIS integration.

Exposures:

- Outside weather
- Non-weather related temp below 55°
- Non-weather related temp above 75°
- Humidity/dampness
- Moving mechanical parts
- Exposed high places
- Vibration
- Toxic or caustic chemicals
- Confined spaces
- Wet
- Fumes
- Dusts
- Radiation
- Noise Level 60 DBL
- Other \_\_\_\_\_
- Gasses
- Odors
- Mists
- Explosives

Special Requirements:

- CDL
- Respirator use

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PHYSICAL DEMAND	HRS PER SHIFT
Standing	30 min – 2 hours
Walking <input checked="" type="checkbox"/> uneven terrain	1 – 3 hours
Sitting	4 – 7 hours
Climbing stairs	0
Climbing <u>ladders</u>	0 – 15 minutes
Balancing	0 – 3 hours
Bending/Stooping	0 – 1 hour
Kneeling	0 – 1 hour
Crouching	0 – 1 hour
Crawling	0 – 1 hour
Foot controls	0 – 1.5 hours
Reaching above shoulders	0 – 15 minutes
Reaching waist-shoulder	4 – 7 hours

PHYSICAL DEMAND	HRS PER SHIFT
Reaching knee-waist	0 – 1 hour
Reaching floor-knee	0 – 1 hour
Lifting/Carrying 1-10#	0 – 4 hours
Lifting/Carrying 11-20#	0
Lifting/Carrying 21-50#	0
Lifting/Carrying 51-100#	0
Lifting/Carrying 100+#	0
Handling	4 – 6 hours
Hand Controls	0 – 30 minutes
Fingering <input checked="" type="checkbox"/> keyboarding	4 – 7 hours
Vision to assure safety of others	0 – 4 hours
Hearing to assure safety of others	0 – 4 hours
Other	

I have reviewed the following Job Analysis for the above-named candidate.

\_\_\_\_\_  
Physician's Signature

\_\_\_\_\_  
Date