

FORM TECH-6 CURRICULUM VITAE (CV) FOR PROPOSED PROFESSIONAL STAFF

1. **Proposed Position** [only one candidate shall be nominated for each position]: Topo Surveyor / Satellite Interpretation Specialist (I-4)

2. **Name of Firm** [Insert name of firm proposing the staff]: Hydrau-Tech, Inc.

3. **Name of Staff** [Insert full name]: Saud Amer_____

4. **Date of Birth:** 1957_____ **Nationality:** USA Citizen_____

5. **Education** [Indicate college/university and other specialized education of staff member, giving names of institutions, degrees obtained, and dates of obtainment]:

Ph.D. - University of Arizona, Tucson , Remote Sensing, Soil, Water, and Watershed Management, 1991

M.S. - University of Arizona, Tucson , Remote Sensing, Soil and Water, 1987

B.Sc. - California State University, Chico, Agronomy, 1983

Diploma, - Irrigation and Drainage, Higher Institute of Agriculture and Technology, Baghdad, 1973

6. **Membership of Professional Associations:** _____

- American Society for Photogrammetry and Remote Sensing
 - American Society of Agronomy - Crop Science Society of America - Soil Science Society of America (ASA-CSSA-SSSA)
 - American Geophysical Union (AGU)
 - The Economics Press, Leadership
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7. **Other Training** [Indicate significant training since degrees under 5 - Education were obtained]: _____

8. **Countries of Work Experience:** [List countries where staff has worked in the last ten years]:_____

Geographic Experience

- Middle East
 - Central Southwest and Southeast Asia
 - Major part of Africa
 - North America
 - Central America
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9. **Languages** [For each language indicate proficiency: good, fair, or poor in speaking, reading, and writing]: _____

- Fluent in English
 - Fluent in Arabic
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10. Employment Record [*Starting with present position, list in reverse order every employment held by staff member since graduation, giving for each employment (see format here below): dates of employment, name of employing organization, positions held.*]:

Experienced remote-sensing scientist and manager with expertise in:

Watershed & hydrologic studies and analysis	Instrumentation
Remote sensing applications	Research
Satellite & aerial photograph interpretation	Procedural development
Scientific information management systems	Process assessment
Land processes scenario development	Requirement definition
System design and prototype testing	Technical writing and editing
Food insecurity and vulnerability, humanitarian assistant, and disaster mitigation	Successful proposal writing
Chemical & physical analyses of soil & plants	

Thirty years of research and studies experience in remote sensing applications for agriculture, hydrologic and environmental studies; food security, population vulnerability and disaster impacts and implications; and chemical and physical analyses of soil, water and plants using advanced analytical instruments, including:

- experience assisting in the design and implementation of scientific information management system, the EOSDIS Core System.
- teaching college-level courses.
- experience in aerial photo interpretation in ground water and soil survey applications

Physical Scientist/Hydrologist – United States Geological Survey (July 2007 – 2008)

Senior Program Manager – RTi, Washington D.C. Office. (December 2006 – July 2007)
Riverside Technology inc., Water Resources Engineering and Consulting

Science Advisor – USAID Office Washington DC (October 2003 – 2008)
University of California Santa Barbara (UCSB)/USGS EROS Data Center.

Science Advisor – USAID Office Washington DC (June – October 2003)
SAIC/USGS EROS Data Center.

International Program Manager – Science Department August (2000 – June 2003)
Raytheon/SAIC, USGS EROS Data Center, Sioux Falls, SD.

Adjunct Professor (December 1996 – August 1999)
Colorado Technical University, Sioux Falls Campus, Computer Science Department.

Science Department/International Program Manager

Raytheon, USGS EROS Data Center, Sioux Falls, SD. January 1999 – August 2000.

Earth/Remote Sensing Senior Scientist

Space Applications Corp., Applied Research Division, Sioux Falls, SD. September 1993 - January 1999.

Assistant Research Scientist

University of Arizona, Tucson, Hydrology and Water Resources Department, College of Engineering and Mines Faculty. January 1992 - September 1993.

Remote Sensing Analyst/Research Assistant

University of Arizona/U.S. Dept. of Agriculture, Agric. Res. Service, Tucson, Arizona. January 1990 - January 1992.

Chemical Analyst

University of Arizona/U.S. Dept. of Agriculture, Agric. Res. Service, Tucson, Arizona, Chemistry lab, 1989-1990.

Adjunct Professor

Pima Community College, Tucson, Arizona, Math Department. August 1987 – May 1991

Graduate Assistantship

University of Arizona, Tucson, Arizona. March 1986 - August 1989

<p>11. Detailed Tasks Assigned</p> <p>Topo Surveyor/ Satellite Interpretation</p>	<p>12. Work Undertaken that Best Illustrates Capability to Handle the Tasks Assigned</p> <p><i>[Among the assignments in which the staff has been involved, indicate the following information for those assignments that best illustrate staff capability to handle the tasks listed under point 11.]</i></p> <p>Physical Scientist/Hydrologist – United States Geological Survey (July 2007 – 2008)</p> <p><u>Description of Duties and Responsibilities</u>— responsibilities included: planning, negotiating, and executing short and long-term scientific agreements in the area of remote sensing applications to Water resources. Implementing and oversight of water resources projects including budget aspects, recruitment of personnel and conformance to work plans and agreements. Currently, I am involved in several water resources projects and remote sensing applications for hydrologic studies in the Himalayan Hindu Kush Region (HHKR), Africa and the Middle East. <i>In Afghanistan, I am leading the agro-meteorological network and the national ground monitoring activities. I am a Co-PI on the Famine Early Warning System (FEWS) where remotely sensed data is being used to monitor the national water resources and calculate water volumes from snowmelt and forecast seasonal water supply/demand for irrigated crops. I am actively involved in the establishment of the recently funded National Spatial Data Infrastructure (NSDI) for Afghanistan.</i></p> <p>1. Senior Program Manager – RTi, Washington D.C. Office. (December 2006 – July 2007)</p> <p>Riverside Technology inc., Water Resources Engineering and Consulting</p> <p><u>Description of Duties and Responsibilities</u>—as the Senior Program Manager for the multi-million dollar NOAA/National Weather Service (NWS) Advanced Hydrologic Prediction Service (AHPS), I was the Rti’s authorized interface for communications with the Government Contracting Officer (CO), the Contracting Officer’s Representative (COR), and NWS management personnel and representatives. Reported directly to the President of Rti. Provided overall management of the project, with the authority to negotiate and make decisions for the company, and would be responsible for overall performance of the AHPS contract. Responsible for organizing, directing, and coordinating the planning and production of contract support activities; regularly meeting and coordinating these activities with RTi and NWS management personnel in discussions on task progress, future tasks, and performance. Supervised a team of water resources and software development engineers. Responsible for developing an overall project management plan, and individual task management plans, and for developing task order proposals including defining NWS requirements and RTi incentive award performance metrics. Coordinated subcontractor activities with the Subcontracting Manager; assigned and managed subcontractor work schedules and budgets as well as resource</p>
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	<p>conflicts between tasks, coordinated subcontractor inputs with individual Task Managers; ensure conformance with costs and performance standards of each task order; and identify and track risks on task orders involving subcontractors. Responsible for preparing routine project financial, technical, and administrative task order reports; formulating and reviewing strategic plans; supervising personnel, reviewing work, and evaluating resource allocations; and coordinating internal technical reviews and approving deliverable documents. Responsible for communicating NOAA/NWS policies, purposes, and goals within RTi and to the company's subcontractors and consultants.</p> <p style="text-align: center;">2. Science Advisor – USAID Office Washington DC (October 2003 – 2008)</p> <p>University of California Santa Barbara (UCSB)/USGS EROS Data Center. <u>Description of Duties and Responsibilities</u>—Provide technical and scientific advice to decision makers in the United States Agency for International Development (USAID) Office in Washington, DC. Track important changes affecting food security that require USAID and host country contingency planning and develop timely presentations and quality maps for the Office of Food for Peace (FFP) that: track the likelihood of natural hazards, its implications and assessments effect upon food security as well as the onset of drought, cyclones, and flood throughout Africa, southern Asia, and Central America; link the incidence of hazards with estimates of the numbers of those vulnerable to morbidity or death resulting from the hazards; and show the relationship between the numbers affected by the response and the numbers of those vulnerable as a result of the hazard. Involved in five major hydrologic projects ranging from ground water exploration, requirement analysis and implementation of flash flood, inundation scenarios, implementation of river flow monitoring and forecasting, to collection of network of meteorological data and information. Engage in extensive professional networking in order to collect the best possible information for FFP and Office of Foreign Disaster Assistance (OFDA). The networking will include regular communication with FEWS NET implementing partners – USGS (in the U.S. and overseas), Chemonics International, NASA GSFC, NOAA CPC, and USDA/FAS Production Estimates and Crop assessment Division (PECAD). The networking should also include other FEWS NET stakeholders like African regional organizations (SADC, IGAD, and CILSS) and specialty technical organizations like the Regional Center for Resource Mapping for Development, Drought Monitoring Centers in Nairobi and Harare, AGRHYMET Regional Center, International Research Institute for Climate Prediction, as well as UN organizations like FAO, WFP, and WMO. Supervise and coordinate activities of the USGS FEWS NET regional scientists and provide day-to-day oversight of the FEWS NET regional scientists, including the development of work plans and performance evaluations. Responsibilities are also including planning, budgeting and cost tracking a multi-million dollar, mainly, USAID funded activities. Synthesize the work of the regional scientists and the UCSB researchers for regular briefings to USAID's Office of Food for Peace, OFDA, and other government institutions. Collaborate with UCSB researchers in grant and</p>
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	<p>paper writing activities. Since 2003 I have written several successful proposals totaling over \$2.5 million.</p> <p>3. Science Advisor – USAID Office Washington DC (June – October 2003) SAIC/USGS EROS Data Center. <u>Description of Duties and Responsibilities</u>—Performed exact same duties and responsibilities mentioned above while in transition to the University of California Santa Barbara.</p> <p>4. International Program Manager – Science Department August (2000 – June 2003) Raytheon/SAIC, USGS EROS Data Center, Sioux Falls, SD. <u>Description of Duties and Responsibilities</u>--Responsible for supervision and management of 40+ professional and technical contractor staff assigned to the international program, a multi-million dollar USAID-funded activities, in the Science Department of a United States Geological Survey facility. Provided technical advice and assistance to program staff on the selection and search of remotely sensed data for specific remote sensing application projects. Worked closely with hydrologists in the international program on the development, implementation and application of geo-spatial stream flow, river flow forecast and water volumes, snow water equivalents, inundation scenarios, and water requirement satisfaction index models for Africa, Central America and Central Southwest Asia. Co-authored two proposals submitted for funding: <i>Micro-ponds</i> for water harvesting in Ethiopia submitted to the USDA-FAS (most recently funded) and <i>Climate indices in semi-arid</i> region submitted to NOAA and was funded as well. Coordinated and provided technical advice on two geo-spatial data infrastructure: data portal in Africa, and clearinghouse and gateway technology in Central America. Oversaw staff assistance to the United Nations Environmental Programme – North American Node regarding wide-range of international environmental issues. Oversaw coordination of outside consultants and subject matter experts in 12 international projects and located in more than ten countries. Interacted frequently with senior customer (USGS and USAID) management and contractor managers to remain current on science issues and requirements, to ensure that early warning is given to the company and customer management regarding potential problems, and to help resolving such problems. Coordinated science activities with USGS Program Managers with regards to new projects development, planning, budgeting, cost tracking, resolving resource conflicts, and prioritizing work. Provided technical and administrative direction and support to the staff. Ensured timeliness and accuracy of assigned task results. Responsible for training, developing and evaluating staff; planning and recommending staff enhancement and recommending candidates for hire to the Contract Operation Manager. Provided leadership to staff, set goals, and helped develop a vision and direction for the Science Department. Participated and presented scientific results and findings in national and international workshops and symposiums.</p>
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	<p>Science Department/International Program Manager</p> <p>Raytheon, USGS EROS Data Center, Sioux Falls, SD. January 1999 – August 2000</p> <p>Earth/Remote Sensing Senior Scientist</p> <p>Space Applications Corp., Applied Research Division, Sioux Falls, SD. September 1993 - January 1999</p> <p><u>Description of Duties and Responsibilities</u>--The position was a full-time participation in the development of a NASA Earth Observing System Data and Information System's (EOSDIS) Land Processes Distributed Active Archive Center (LPDAAC) located in Sioux Falls, South Dakota and technical management of four prototype studies awarded to four universities through NASA-Hughes/Raytheon Grant for developing value added applications of EOS data. Responsibilities included: managing a team of science software engineers and science data specialists; planning; budgeting; cost-tracking; staff assignments; business development; training; staff development; and coordination with customer and contractor managers. Interacted with the LPDAAC science user community to understand requirements for environmental and hydrological data processing, access, and analysis/visualization; utilized remotely sensed data in land processes researches; worked with engineers to translate requirements into data systems designs; and tested and reviewed designs and prototypes with respect to the scientific requirements.</p> <p>5. International Program Manager – Science Department August (2000 – June 2003)</p> <p>Raytheon/SAIC, USGS EROS Data Center, Sioux Falls, SD.</p> <p><u>Description of Duties and Responsibilities</u>--Responsible for supervision and management of 40+ professional and technical contractor staff assigned to the international program, a multi-million dollar USAID-funded activities, in the Science Department of a United States Geological Survey facility. Provided technical advice and assistance to program staff on the selection and search of remotely sensed data for specific remote sensing application projects. Worked closely with hydrologists in the international program on the development, implementation and application of geo-spatial stream flow, river flow forecast and water volumes, snow water equivalents, inundation scenarios, and water requirement satisfaction index models for Africa, Central America and Central Southwest Asia. Co-authored two proposals submitted for funding: <i>Micro-ponds</i> for water harvesting in Ethiopia submitted to the USDA-FAS (most recently funded) and <i>Climate indices in semi-arid</i> region submitted to NOAA and was funded as well. Coordinated and provided technical advice on two geo-spatial data infrastructure: data portal in Africa, and clearinghouse and gateway technology in Central America. Oversaw staff assistance to the United Nations Environmental Programme – North American Node regarding wide-range of international environmental issues. Oversaw coordination of outside consultants and subject matter experts in 12 international projects and located in more than ten countries. Interacted frequently with senior</p>
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	<ol style="list-style-type: none">11. Advisor to the United Nations Food and Agriculture Organization, Crop and Food Supply Assessment Mission, Kabul, Afghanistan, June 28-July 10, 200212. Advisor at the 1st Consultative Panel meeting for the Hindu-Kush Himalayan region, Kathmadu, Nepal, May 19-22, 2002; invited to participate in the 2nd Consultative Panel Meeting, March 200313. Chair, remote sensing applications, USGS future science writing team, 200114. Represented the USGS in the Global Climate Change/Global Water Cycle initiative proposal-writing team, 2000-200115. Chair, IEEE International Symposium on Image, Speech, and Natural Language Systems, November 1-3, 199916. Represented the USGS at the expert team on water resources management, the UNDP, 199917. Represented the Distributed Data Active Archive Center on remote sensing-related issues in several workshops, symposiums, and conferences nationally and internationally, 1993-199918. Chair, Two sessions on Data Archive and Access, Human Interaction with the Environment: Perspectives from Space Symposium, Sioux Falls, SD, August 20-22, 199619. Chair, Data and Metadata Panel, Semi-Arid Land Surface-Atmosphere Multidisciplinary Monitoring and Modeling Workshop, Tucson, AZ, July 31 - August 4, 1995
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