

## Statement of purpose

My Name is Mohammed Abera Assefa, I am a Senior meteorologist, If I were asked to classify myself among the huge community of meteorologists around the world, I would distinguish myself as an ambitious individual with a keen desire to learn, a strong will to succeed and a competitive spirit to excel. Ethiopia is my native country. My country is an independent and young state. It is developing but it has a lot of problems. Ethiopia is a country of endowed with many natural resources. Climate change and Water is one of the huge potential resources of the country in the area of development to meet the GTP plan of the country in terms of hydropower, irrigation, water supply, Health etc. On the other hand, the topography of Ethiopia is rugged with distinctly defined climate and atmospheric courses which are right to result in moderate to high flooding events which caused devastations. In more recent times, flash floods Climate sensitive disease and drought have been also become a common hazard in many places in East Africa. Some of the areas subjected to flash floods and climate change are found in the northern, central, southern and eastern parts of Ethiopia. Climate change and Flash floods are notoriously difficult to predict and prepare. Thus, it is typically associated with losses of life, properties in kind, unexpected and significant damages to infrastructure and accelerated land degradation and increasing of sediment transportation. Currently Drought Climate sensitive disease and flash flood like events are become frequently happening due to extreme weather situations. My public activity is I have been working for Ten (10) years in NMA as a meteorologist. The aforementioned experiences were that I have involved in the national level called Weather impact on Health task force group as focal Person for National Meteorology Agency (NMA). Moreover, I process, analyze and disseminate real time climate information to different stakeholders. And in addition to my official jobs, I am currently working as the early warning in climate impact on agriculture, water and Health in Ethiopia in the part of Agro meteorology Bio Meteorology and hydrometeorology activity. Having said that, as a member of a youth community I have a lot of goals and plans. Those goals are improvement of climate information usage, analyzing of different climate systems creating a strategy to the water sanitation hygen, sustainable reduction and protection of hazards and developing mitigation and adaptation systems for my country as well as the world. It's very important for me to look for the most active research area of Climate extremes modeling.

I am writing to apply on Summer School on Effective HPC for Climate and Weather, in which I am enormously interested. The degree from one of the most prestigious, elitist and respected universities is my chance to enrich my knowledge and professionally outgrowth thereby contribute to the development of the meteorological science and the strengthening of the values of modeling of climate, Atmosphere and ocean system, promoting climate service in the world by contributing the development of mitigation and adaptation structure for food security in my native country and a whole world. I have enough experience for east African climate science. I did my B. Sc degree in Ethiopia (Ariba Minch University) Meteorology science. Lastly, I am pleased to request your esteemed office to consider my application to get the opportunity to continue my profession (knowledge).

With Best regards,

Mohammed Abera  
Senior Meteorologist, NMA, Addis Ababa Ethiopia